

The Bull E-Bike Pilot

NREL TSDC Data Dictionary

Region:	North Carolina
Agency:	City of Durham
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Summary

The City of Durham's Transportation Department conducted the Bull E-Bike Pilot to learn more about how electric bikes (e-bikes) can be deployed to improve the transportation experience in the Bull City. Selected participants used a pedal-assist e-bike for 4+ weeks in exchange for sharing information about their experience, including tracking their travel via a smartphone app. In addition to the e-bike, participants received a helmet, U-lock, other accessories, and maintenance support. Durham launched the first participant cohort on August 15, and the pilot ended in November 2022. The data collection for the Bull E-Bike Pilot was enabled by the open-source OpenPATH platform. A unique data set consisting of 3 months of partially automated travel diaries, combining sensed and surveyed data and linked with demographic information from 76 participants. The Bull E-Bike Pilot Program data package contains a demographic and socioeconomic composition of 76 people, as well as detailed information on the travel behavior from both sensed and surveyed patterns of multimodal, end-to-end, individual human mobility, including non-commute trips and trips without the e-bike. The total number of e-bike trips was 2,183 and total miles traveled on e-bikes was approximately 5,450.

Table/File Definitions

Table	Description
analysis_cleaned_place	Trip starting and ending points origin and destination
analysis_cleaned_section	Parts of the unimodal trip between a place and a stop or a stop and another stop
analysis_cleaned_stop	Points that the user made a stop at during travel between places origin and destination
analysis_cleaned_trip	The overall journey from one place to another including places stops and sections
analysis_cleaned_untracked	Untracked parts of the travel diary on a given trip
analysis_confirmed_trip	Cleaned trip information obtained from the device and user input
analysis_expected_trip	Expected trip information from the labels assist feature
analysis_inferred_labels	Cleaned trip with the mode inference from the labels assist feature
analysis_inferred_section	Cleaned section with the mode inference
analysis_inferred_trip	Cleaned trip with the mode inference from the labels assist feature
analysis_recreated_location	Recreated and resampled locations
analysis_smoothing	Output of the bad point detection smoothing the analysis
background_battery	Battery stats read from the device
background_filtered_location	Location after filtered by the device
background_location	Location read from the device
background_motion_activity	Motion activity collected by the device walk bike or transit
config_app_ui_config	UI configuration

config_consent	Affirmed consent to participate
config_sensor_config	Sensor configuration
error_statemachine_transition	Errors in detecting transition to another state
inference_labels	Inference labels from the labels assist feature
inference_prediction	Prediction of the elements of the trip
manual_demographic_survey	Demographic survey
manual_mode_confirm	Manually entered confirmed mode s by the user
manual_purpose_confirm	Manually entered trip purpose by the user
manual_replaced_mode	The mode that the user would have used if the current mode was not available manually entered by the user
segmentation_raw_place	Raw-trip starting and ending points origin and destination
segmentation_raw_section	Raw-parts of the unimodal trip between a place and a stop or a stop and another stop
segmentation_raw_stop	Raw-points that the user made a stop at during travel between places origin and destination
segmentation_raw_trip	Raw-the overall journey from one place to another including places stops and sections
segmentation_raw_untracked	Raw-untracked parts of the travel diary on a given trip
stage_profile	User phone settings
statemachine_transition	Eveytime the device detects that the user transitions to a different state
stats_client_error	Error that was detected by the app
stats_client_nav_event	Users navigation through the app eg moving in between tabs in the app clicking buttons etc
stats_client_time	Time required for the app the receive and store data

stats_pipeline_error	Error in the pipeline
stats_pipeline_time	How long the pipeline took to run
stats_server_api_time	The time for the server to respond to the request from the app
usercache_background_battery	Battery of the device
usercache_background_filtered_location	Filtered location
usercache_background_location	Location
usercache_background_motion_activity	Activity
usercache_config_app_ui_config	Usercache UI configuration
usercache_config_consent	The protocol the user consented to
usercache_config_sensor_config	Device sensor configuration
usercache_manual_demographic_survey	Demographic survey
usercache_manual_mode_confirm	Manually entered modes by the user
usercache_manual_purpose_confirm	Manually entered trip purpose by the user
usercache_manual_replaced_mode	The mode that the user would have used if the current mode was not available manually entered by the user
usercache_statemachine_transition	Everytime the device detects that the user transitions to a different state
usercache_stats_client_error	Error that was detected by the app
usercache_stats_client_nav_event	Users navigation through the app eg moving in between tabs in the app clicking buttons etc
usercache_stats_client_time	Time required for the app to receive and store data

Column Definitions

Column	Table	Description
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<p>_id</p>	<p>analysis_confirmed_trip, segmentation_raw_stop, analysis_inferred_labels, segmentation_raw_trip, error_statemachine_transition, usercache_stats_client_error, segmentation_raw_place, analysis_cleaned_stop, usercache_stats_client_time, usercache_manual_purpose_confirm, usercache_manual_replaced_mode, analysis_cleaned_section, usercache_background_motion_activity, analysis_inferred_section, usercache_background_filtered_location, usercache_config_app_ui_config, analysis_cleaned_trip, analysis_cleaned_untracked, inference_labels, usercache_manual_demographic_survey, usercache_background_battery, analysis_expected_trip, analysis_inferred_trip, segmentation_raw_untracked, manual_demographic_survey, usercache_manual_mode_confirm, usercache_background_location, usercache_config_consent, segmentation_raw_section, stage_profile, usercache_stats_client_nav_event, usercache_config_sensor_config, inference_prediction, analysis_cleaned_place, analysis_smoothing, analysis_recreated_location, usercache_statemachine_transition, background_location, config_consent, stats_client_error, statemachine_transition, manual_replaced_mode, stats_pipeline_error, stats_server_api_time, background_motion_activity, stats_pipeline_time, stats_client_time, config_app_ui_config, config_sensor_config, background_battery, manual_purpose_confirm, stats_client_nav_event, manual_mode_confirm, background_filtered_location</p>	<p>Object id</p>
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arcem5ipb4f9cqzr258k4r_attr_id	usercontent_manual_demographic_survey, manual_demographic_survey	survey, Attribute ID
arcem5ipb4f9cqzr258k4r_attr_xmlns_jr	usercontent_manual_demographic_survey, manual_demographic_survey	survey, Javara link
arcem5ipb4f9cqzr258k4r_attr_xmlns_orx	usercontent_manual_demographic_survey, manual_demographic_survey	survey, Xforms link
arcem5ipb4f9cqzr258k4r_end	usercontent_manual_demographic_survey	Survey end
arcem5ipb4f9cqzr258k4r_end	manual_demographic_survey	End time
arcem5ipb4f9cqzr258k4r_group_hg4225a1	usercontent_manual_demographic_survey	Which one below describes you best?
arcem5ipb4f9cqzr258k4r_group_hg4225a1	usercontent_manual_demographic_survey	Are you a student?
arcem5ipb4f9cqzr258k4r_group_hg4225a2	usercontent_manual_demographic_survey	Are you a student?
arcem5ipb4f9cqzr258k4r_group_hg4225a2	usercontent_manual_demographic_survey	Do you have a drivers license?
arcem5ipb4f9cqzr258k4r_group_hg4225a3	usercontent_manual_demographic_survey	Are you a paid worker?
arcem5ipb4f9cqzr258k4r_group_hg4225a3	usercontent_manual_demographic_survey	What is the highest grade or degree you've completed?
arcem5ipb4f9cqzr258k4r_group_hg4225a4	usercontent_manual_demographic_survey	Are you a paid worker?
arcem5ipb4f9cqzr258k4r_group_hg4225a4	usercontent_manual_demographic_survey	How old are you?
arcem5ipb4f9cqzr258k4r_group_hg4225a5	usercontent_manual_demographic_survey	What is your gender?
arcem5ipb4f9cqzr258k4r_group_hg4225a5	usercontent_manual_demographic_survey	What is the highest grade or degree youve completed?
arcem5ipb4f9cqzr258k4r_group_hg4225a6	usercontent_manual_demographic_survey	What is your gender?
arcem5ipb4f9cqzr258k4r_group_hg4225a6	usercontent_manual_demographic_survey	How old are you?
arcem5ipb4f9cqzr258k4r_group_hg4225a7	usercontent_manual_demographic_survey	Which one below describes you best?
arcem5ipb4f9cqzr258k4r_group_hg4225a7	usercontent_manual_demographic_survey	Do you have a drivers license?
arcem5ipb4f9cqzr258k4r_group_pa5225a1	usercontent_manual_demographic_survey	How long have you had this condition?

arcem5ipb4f9cqzr258k4r_group_passage_5a108a11_demographic_survey	5a108a11_demographic_survey	Do you have a condition that makes it difficult to travel?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a10_demographic_survey	5a108a10_demographic_survey	What is your household income?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a10_manual_demographic_survey	5a108a10_manual_demographic_survey	How many vehicles are owned in your household?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a11_manual_demographic_survey	5a108a11_manual_demographic_survey	Do you have a condition that makes traveling difficult?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a11_demographic_survey	5a108a11_demographic_survey	What is your home type?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a12_demographic_survey	5a108a12_demographic_survey	Do you own or rent your home?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a12_manual_demographic_survey	5a108a12_manual_demographic_survey	Including yourself, how many people live in your home?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a13_demographic_survey	5a108a13_demographic_survey	How long have you had this condition?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a13_manual_demographic_survey	5a108a13_manual_demographic_survey	Do you own or rent your home?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a14_manual_demographic_survey	5a108a14_manual_demographic_survey	What is your household income?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a14_demographic_survey	5a108a14_demographic_survey	How many motor vehicles are owned in your household?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a15_demographic_survey	5a108a15_demographic_survey	If you were unable your household vehicles (or if none were available), what mode would you choose?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a15_manual_demographic_survey	5a108a15_manual_demographic_survey	If you were unable to use your household vehicles, what would you use?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a16_manual_demographic_survey	5a108a16_manual_demographic_survey	Including yourself, how many people have valid drivers licenses in your household?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a16_demographic_survey	5a108a16_demographic_survey	How many children under age 18 live in your home?
arcem5ipb4f9cqzr258k4r_group_passage_5a108a17_manual_demographic_survey	5a108a17_manual_demographic_survey	Including yourself, how many workers are there in your household?

arcem5ipb4f9cqzr258k4r_group_page5a198a7	demographic_survey	Including yourself, how many people live in your home?
arcem5ipb4f9cqzr258k4r_group_page5a198a8	demographic_survey	Including yourself, how many people have valid drivers licenses in your household?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	the_manual_demographic_survey	How many children under age 18 live in your home?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	the_manual_demographic_survey	What is your home type?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	demographic_survey	Including yourself, how many workers are there in your household?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	usercache_manual_demographic_survey, manual_demographic_survey	At your primary job, do you have the ability to set or change your own start time?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	the_manual_demographic_survey	Which best describes your primary job?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	demographic_survey	Do you have more than 1 job?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	demographic_survey	Do you have the option of working from home or an alternate location instead of going into your primary work place?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	the_manual_demographic_survey	Do you work full or part time?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	demographic_survey	Do you work full or part time?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	the_manual_demographic_survey	Do you have the option of working from home or an alternate location instead of going into your primary work place?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	demographic_survey	How do you usually get to your job?
arcem5ipb4f9cqzr258k4r_group_page5a198a9	the_manual_demographic_survey	Do you have more than one job?

arcem5ipb4f9cqzr258k4r_group_yk84b90a6	usercache_manual_demographic_survey	What days of the week do you typically work from home or an alternate location?
arcem5ipb4f9cqzr258k4r_group_yk84b90a6	manual_demographic_survey	How many days do you usually work from home or an alternate location per week?
arcem5ipb4f9cqzr258k4r_group_yk84b90a7	manual_demographic_survey	What days of the week do you typically work from home or an alternate location?
arcem5ipb4f9cqzr258k4r_group_yk84b90a7	usercache_manual_demographic_survey	How many days do you usually work from home or an alternate location per week?
arcem5ipb4f9cqzr258k4r_group_yk84b90a8	manual_demographic_survey	[Not answered]
arcem5ipb4f9cqzr258k4r_group_yk84b90a8	usercache_manual_demographic_survey	How did you usually get to your primary job?
arcem5ipb4f9cqzr258k4r_group_yk84b90a9	usercache_manual_demographic_survey	[Not answered]
arcem5ipb4f9cqzr258k4r_group_yk84b90a9	manual_demographic_survey	Which best describes your primary job?
arcem5ipb4f9cqzr258k4r_meta_instanceid	usercache_manual_demographic_survey, manual_demographic_survey	Instance ID
arcem5ipb4f9cqzr258k4r_start	usercache_manual_demographic_survey	Survey start
arcem5ipb4f9cqzr258k4r_start	manual_demographic_survey	Start time
asfdnws9le6q8yef7u9n85_attr_id	manual_demographic_survey, usercache_manual_demographic_survey	Attribute ID
asfdnws9le6q8yef7u9n85_attr_xmins_jr	manual_demographic_survey, usercache_manual_demographic_survey	Javarosa link
asfdnws9le6q8yef7u9n85_attr_xmins_orx	manual_demographic_survey, usercache_manual_demographic_survey	Xforms link
asfdnws9le6q8yef7u9n85_end	manual_demographic_survey	End time
asfdnws9le6q8yef7u9n85_end	usercache_manual_demographic_survey	Survey end
asfdnws9le6q8yef7u9n85_group_hgm4mz25	manual_demographic_survey	Are you a paid worker?

asfdnws9le6q8yef7u9n85_group_hg4zz25_1	usercache_manual_demographic_survey	Which one below describes you best?
asfdnws9le6q8yef7u9n85_group_hg4zz25_2	manual_demographic_survey	Are you a student?
asfdnws9le6q8yef7u9n85_group_hg4zz25_3	usercache_manual_demographic_survey	What is your race/ethnicity?
asfdnws9le6q8yef7u9n85_group_hg4zz25_4	usercache_manual_demographic_survey	Are you a student?
asfdnws9le6q8yef7u9n85_group_hg4zz25_3	manual_demographic_survey	Do you have a drivers license?
asfdnws9le6q8yef7u9n85_group_hg4zz25_4	manual_demographic_survey	How old are you?
asfdnws9le6q8yef7u9n85_group_hg4zz25_4	usercache_manual_demographic_survey	What is the highest grade or degree you've completed?
asfdnws9le6q8yef7u9n85_group_hg4zz25_5	manual_demographic_survey	What is the highest grade or degree youve completed?
asfdnws9le6q8yef7u9n85_group_hg4zz25_5	usercache_manual_demographic_survey	Do you consider yourself to be Transgender?
asfdnws9le6q8yef7u9n85_group_hg4zz25_6	manual_demographic_survey, usercache_manual_demographic_survey	What is your gender?
asfdnws9le6q8yef7u9n85_group_hg4zz25_7	manual_demographic_survey	What is your race and/or ethnicity?
asfdnws9le6q8yef7u9n85_group_hg4zz25_7	usercache_manual_demographic_survey	How old are you?
asfdnws9le6q8yef7u9n85_group_hg4zz25_8	manual_demographic_survey	Which one below describes you best?
asfdnws9le6q8yef7u9n85_group_hg4zz25_8	usercache_manual_demographic_survey	Are you a paid worker?
asfdnws9le6q8yef7u9n85_group_hg4zz25_9	manual_demographic_survey	Do you have consider yourself to be Transgender?
asfdnws9le6q8yef7u9n85_group_hg4zz25_9	usercache_manual_demographic_survey	Do you have a drivers license?
asfdnws9le6q8yef7u9n85_group_p5ah9a_1	manual_demographic_survey	Do you have a condition that makes it difficult to travel?
asfdnws9le6q8yef7u9n85_group_p5ah9a_1	usercache_manual_demographic_survey	How long have you had this condition?

asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	How many motor vehicles are owned, leased, or available for regular use by the people who currently live in your household?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	Please identify which category represents your total household income, before taxes, for last year.
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	What is your home type?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	Do you have a condition that makes traveling difficult?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	How many children under age 18 live in your home?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	Do you own or rent your home?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	Including yourself, how many people live in your home?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	How long have you had this condition?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	How many motor vehicles are owned in your household?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	Do you own or rent your home?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	If you were unable to use your household motor vehicle(s) (or if none are available to you), which of the following options would be available to you to get from place to place?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	What is your household income?
asfdnws9le6q8yef7u9n85_group_passenra10_manual_demographic_survey	5a1n9a10	Including yourself, how many people live in your home?

asfdnws9le6q8yef7u9n85_group_pa5ah98_6	5ah98_6_manual_demographic_survey	If you were unable to use your household motor vehicle(s) (or if none are available to you), which of the following options would be available to you to get from place to place?
asfdnws9le6q8yef7u9n85_group_pa5ah98_7	manual_demographic_survey, usercache_manual_demographic_survey	Including yourself, how many people have valid drivers licenses in your household?
asfdnws9le6q8yef7u9n85_group_pa5ah98_8	manual_demographic_survey, usercache_manual_demographic_survey	Including yourself, how many workers are there in your household?
asfdnws9le6q8yef7u9n85_group_pa5ah98_9	5ah98_9_manual_demographic_survey	What is your home type?
asfdnws9le6q8yef7u9n85_group_pa5ah98_9	5ah98_9_manual_demographic_survey	How many children under age 18 live in your home?
asfdnws9le6q8yef7u9n85_group_yk8eb99_1	manual_demographic_survey, usercache_manual_demographic_survey	At your primary job, do you have the ability to set or change your own start time?
asfdnws9le6q8yef7u9n85_group_yk8eb99_2	8eb99_2_manual_demographic_survey	Which best describes your primary job?
asfdnws9le6q8yef7u9n85_group_yk8eb99_2	8eb99_2_manual_demographic_survey	Do you have more than 1 job?
asfdnws9le6q8yef7u9n85_group_yk8eb99_3	8eb99_3_manual_demographic_survey	Do you work full or part time?
asfdnws9le6q8yef7u9n85_group_yk8eb99_3	8eb99_3_manual_demographic_survey	Do you have the option of working from home or an alternate location instead of going into your primary work place?
asfdnws9le6q8yef7u9n85_group_yk8eb99_4	8eb99_4_manual_demographic_survey	Do you have the option of working from home or an alternate location instead of going into your primary work place?
asfdnws9le6q8yef7u9n85_group_yk8eb99_4	8eb99_4_manual_demographic_survey	Do you work full or part time?

asfdnws9le6q8yef7u9n85_group_yk6eb99l5	demographic_survey	How many days do you usually work from home or an alternate location per week?
asfdnws9le6q8yef7u9n85_group_yk6eb99l5	manual_demographic_survey	Please describe your primary job.
asfdnws9le6q8yef7u9n85_group_yk6eb99l5	manual_demographic_survey	Do you have more than one job?
asfdnws9le6q8yef7u9n85_group_yk6eb99l6	demographic_survey	Please describe your primary job
asfdnws9le6q8yef7u9n85_group_yk8eb99l7	manual_demographic_survey, usercache_manual_demographic_survey	What days of the week do you typically work from home or an alternate location?
asfdnws9le6q8yef7u9n85_group_yk6eb99l8	demographic_survey	Which best describes your primary job?
asfdnws9le6q8yef7u9n85_group_yk6eb99l8	manual_demographic_survey	How many days do you usually work from home or an alternate location per week?
asfdnws9le6q8yef7u9n85_meta_instanceid	manual_demographic_survey, usercache_manual_demographic_survey	Instance ID
asfdnws9le6q8yef7u9n85_start	manual_demographic_survey	Start time
asfdnws9le6q8yef7u9n85_start	usercache_manual_demographic_survey	Survey start
client_app_version	stage_profile	Version of the app
client_os_version	stage_profile	Os version
curr_platform	stage_profile	Timezone
curr_sync_interval	stage_profile	Frequency of communication between the client and the server
data_accuracy	background_filtered_location, background_location, config_sensor_config, usercache_config_sensor_config, usercache_background_filtered_location, usercache_background_location, analysis_recreated_location	Horizontal accuracy of the point in meters. this is the radius of the 68% confidence, so a lower number means better accuracy

data_accuracy_threshold	config_sensor_config, usercache_config_sensor_config	Threshold for valid accuracies
data_algorithm_id	inference_prediction, inference_labels, analysis_inferred_labels	The algorithm which made this prediction
data_altitude	background_filtered_location, background_location, usercache_background_filtered_location, usercache_background_location, analysis_recreated_location	Altitude of the point
data_android_geofence_responsiveness	config_sensor_config, usercache_config_sensor_config	Android only: geofence responsiveness
data_android_health	background_battery, usercache_background_battery	Android-only battery health indicator
data_android_plugged	background_battery, usercache_background_battery	Source that it is plugged into
data_android_technology	background_battery, usercache_background_battery	Technology used to make the battery
data_android_temperature	background_battery, usercache_background_battery	Android-only: current temperature
data_android_voltage	background_battery, usercache_background_battery	Android-only: current voltage
data_approval_date	config_consent, usercache_config_consent	Date
data_automotive	background_motion_activity, usercache_background_motion_activity	True/false
data_battery_level_pct	background_battery, usercache_background_battery	Percentage of the battery left. value between 0 and 100
data_battery_level_ratio	usercache_background_battery	Battery level
data_battery_status	background_battery, usercache_background_battery	Current status - charging, discharging or full (unknown = 0, discharging = 1, charging = 2, full = 3, not_charging = 4 this is an android-only state)

data_bearing	usercache_background_filtered_location, usercache_background_location	Bearing, in degrees
data_cleaned_section	analysis_inferred_section	The link to cleaned section
data_cleaned_trip	analysis_expected_trip, analysis_confirmed_trip, analysis_inferred_trip	The link to cleaned trip
data_client_app_version	stats_client_time, stats_client_nav_event, stats_client_error, usercache_stats_client_error, usercache_stats_client_nav_event, usercache_stats_client_time	App version
data_client_os_version	stats_client_error, stats_client_nav_event, stats_client_time, usercache_stats_client_error, usercache_stats_client_time, usercache_stats_client_nav_event	Os version
data_confidence	background_motion_activity, usercache_background_motion_activity	Confidence in percentage
data_confidence_level	background_motion_activity	Confidence level
data_confidence_threshold	analysis_confirmed_trip, analysis_expected_trip	Confidence threshold
data_curr_state	statemachine_transition	Transition events for the tracking finite state machine on the phone
data_currstate	error_statemachine_transition, usercache_statemachine_transition	Transition events for the tracking finite state machine on the phone
data_cycling	background_motion_activity, usercache_background_motion_activity	True/false
data_deleted_points	analysis_smoothing	List of ids of deleted points
data_display_config_use_imperial	config_app_ui_config, usercache_config_app_ui_config	Whether or not UI uses imperial or metric measurements

data_distance	analysis_recreated_location, analysis_cleaned_stop, segmentation_raw_stop, analysis_inferred_section, analysis_cleaned_section, analysis_confirmed_trip, analysis_cleaned_trip, analysis_inferred_trip, segmentation_raw_untracked, analysis_cleaned_untracked, analysis_expected_trip, segmentation_raw_trip	Distance of the trip in meters
data_distances	analysis_inferred_section, analysis_cleaned_section	Distance profile for this section
data_duration	analysis_cleaned_place, segmentation_raw_stop, segmentation_raw_place, analysis_cleaned_stop, segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section, segmentation_raw_untracked, analysis_expected_trip, analysis_cleaned_trip, segmentation_raw_trip, analysis_cleaned_untracked, analysis_inferred_trip, analysis_confirmed_trip	The duration in seconds for which the user was at this place
data_elapsedrealtimenanos	background_location, background_filtered_location, usercache_background_filtered_location, usercache_background_location, analysis_recreated_location	Nanosec since eth phone was booted

data_end_fmt_time	manual_replaced_mode, manual_mode_confirm, manual_purpose_confirm, analysis_cleaned_section, analysis_inferred_section, segmentation_raw_section, segmentation_raw_trip, segmentation_raw_untracked, analysis_confirmed_trip, analysis_cleaned_trip, analysis_cleaned_untracked, analysis_inferred_trip, analysis_expected_trip	End formatted time (in timezone of point)
data_end_loc_coordinates	segmentation_raw_section, analysis_inferred_section, analysis_cleaned_section, analysis_cleaned_trip, analysis_expected_trip, analysis_cleaned_untracked, analysis_confirmed_trip, segmentation_raw_untracked, segmentation_raw_trip, analysis_inferred_trip	End location coordinates
data_end_loc_latitude	segmentation_raw_untracked, analysis_cleaned_untracked, segmentation_raw_trip, analysis_cleaned_trip, segmentation_raw_section, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, analysis_confirmed_trip	End location latitude

data_end_loc_longitude	segmentation_raw_untracked, analysis_cleaned_untracked, segmentation_raw_trip, segmentation_raw_section, analysis_cleaned_trip, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, analysis_confirmed_trip	End location longitude
data_end_loc_type	analysis_inferred_section, segmentation_raw_section, analysis_cleaned_section, segmentation_raw_trip, analysis_confirmed_trip, analysis_inferred_trip, segmentation_raw_untracked, analysis_expected_trip, analysis_cleaned_trip, analysis_cleaned_untracked	Location type (point)
data_end_local_dt_day	manual_mode_confirm, manual_replaced_mode, manual_purpose_confirm, analysis_inferred_section, analysis_cleaned_section, segmentation_raw_section, segmentation_raw_trip, segmentation_raw_untracked, analysis_confirmed_trip, analysis_cleaned_trip, analysis_cleaned_untracked, analysis_expected_trip, analysis_inferred_trip	End datetime in local time (day)

data_end_local_dt_hour	manual_purpose_confirm, manual_mode_confirm, manual_replaced_mode, analysis_cleaned_section, analysis_inferred_section, segmentation_raw_section, segmentation_raw_untracked, segmentation_raw_trip, analysis_inferred_trip, analysis_expected_trip, analysis_cleaned_trip, analysis_confirmed_trip, analysis_cleaned_untracked	End datetime in local time (hour)
data_end_local_dt_minute	manual_mode_confirm, manual_replaced_mode, manual_purpose_confirm, analysis_cleaned_section, analysis_inferred_section, segmentation_raw_section, segmentation_raw_trip, analysis_confirmed_trip, analysis_cleaned_untracked, analysis_expected_trip, analysis_inferred_trip, segmentation_raw_untracked, analysis_cleaned_trip	End datetime in local time (minute)
data_end_local_dt_month	manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, segmentation_raw_trip, analysis_cleaned_trip, segmentation_raw_untracked, analysis_inferred_trip, analysis_cleaned_untracked, analysis_confirmed_trip	End datetime in local time (month)

data_end_local_dt_second	manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, segmentation_raw_section, analysis_inferred_section, analysis_cleaned_section, analysis_expected_trip, analysis_inferred_trip, segmentation_raw_trip, analysis_confirmed_trip, analysis_cleaned_untracked, segmentation_raw_untracked, analysis_cleaned_trip	End datetime in local time (second)
data_end_local_dt_timezone	manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, analysis_inferred_section, analysis_cleaned_section, segmentation_raw_section, analysis_cleaned_untracked, segmentation_raw_untracked, analysis_inferred_trip, analysis_cleaned_trip, analysis_confirmed_trip, analysis_expected_trip, segmentation_raw_trip	Enddatetime in local time (timezone)
data_end_local_dt_weekday	manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, analysis_cleaned_section, segmentation_raw_section, analysis_inferred_section, analysis_expected_trip, analysis_inferred_trip, analysis_confirmed_trip, segmentation_raw_trip, segmentation_raw_untracked, analysis_cleaned_untracked, analysis_cleaned_trip	End datetime in local time (weekday)

data_end_local_dt_year	manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, segmentation_raw_section, analysis_inferred_section, analysis_cleaned_section, analysis_inferred_trip, analysis_cleaned_trip, analysis_expected_trip, analysis_confirmed_trip, segmentation_raw_trip, segmentation_raw_untracked, analysis_cleaned_untracked	End datetime in local time (year)
data_end_place	analysis_expected_trip, segmentation_raw_trip, analysis_cleaned_untracked, segmentation_raw_untracked, analysis_inferred_trip, analysis_confirmed_trip, analysis_cleaned_trip	Id of place object after this one
data_end_stop	segmentation_raw_section, analysis_inferred_section, analysis_cleaned_section	Id of the stop object after this one
data_end_ts	usercache_manual_purpose_confirm, usercache_manual_replaced_mode, usercache_manual_mode_confirm, manual_replaced_mode, manual_purpose_confirm, manual_mode_confirm, analysis_inferred_labels, inference_labels, inference_prediction, segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section, analysis_inferred_trip, analysis_cleaned_untracked, segmentation_raw_untracked, analysis_confirmed_trip, segmentation_raw_trip, analysis_cleaned_trip, analysis_expected_trip	End utc timestamp (in secs)

data_ending_section	analysis_cleaned_stop, segmentation_raw_stop	Foreing key into trip table / each section has a link to the trip table
data_ending_trip	segmentation_raw_place, analysis_cleaned_place	Foreing key into trip table / each place has a link to the trip table
data_enter_fmt_time	analysis_cleaned_stop, segmentation_raw_stop, segmentation_raw_place, analysis_cleaned_place	Formatted entry time in timezone of place
data_enter_loc_coordinates	segmentation_raw_stop, analysis_cleaned_stop	Enter point coordiantes
data_enter_loc_latitude	segmentation_raw_stop, analysis_cleaned_stop	Location latitude coordinate
data_enter_loc_longitude	analysis_cleaned_stop, segmentation_raw_stop	Location longitude coordinate
data_enter_loc_type	analysis_cleaned_stop, segmentation_raw_stop	Location type (point)
data_enter_local_dt_day	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (day)
data_enter_local_dt_hour	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (hour)
data_enter_local_dt_minute	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (minute)
data_enter_local_dt_month	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (month)

data_enter_local_dt_second	analysis_cleaned_stop, segmentation_raw_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (second)
data_enter_local_dt_timezone	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (timezone)
data_enter_local_dt_weekday	analysis_cleaned_stop, segmentation_raw_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (weekday)
data_enter_local_dt_year	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Local datetime in timezone of entry (year)
data_enter_ts	segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_place, analysis_cleaned_place	Timestamp in seconds
data_exit_fmt_time	analysis_cleaned_place, segmentation_raw_place, analysis_cleaned_stop, segmentation_raw_stop	Formatted time in timezone of place
data_exit_loc_coordinates	analysis_cleaned_stop, segmentation_raw_stop	Exit point coordinates
data_exit_loc_latitude	segmentation_raw_stop, analysis_cleaned_stop	Location latitude coordinate
data_exit_loc_longitude	segmentation_raw_stop, analysis_cleaned_stop	Location longitude coordinate
data_exit_loc_type	analysis_cleaned_stop, segmentation_raw_stop	Location type (point)
data_exit_local_dt_day	analysis_cleaned_place, segmentation_raw_place, analysis_cleaned_stop, segmentation_raw_stop	Local datetime in timezone of exit (day)

data_exit_local_dt_hour	segmentation_raw_place, analysis_cleaned_place, analysis_cleaned_stop, segmentation_raw_stop	Local datetime in timezone of exit (hour)
data_exit_local_dt_minute	segmentation_raw_place, analysis_cleaned_place, segmentation_raw_stop, analysis_cleaned_stop	Local datetime in timezone of exit (minute)
data_exit_local_dt_month	segmentation_raw_place, analysis_cleaned_place, segmentation_raw_stop, analysis_cleaned_stop	Local datetime in timezone of exit (month)
data_exit_local_dt_second	analysis_cleaned_place, segmentation_raw_place, segmentation_raw_stop, analysis_cleaned_stop	Local datetime in timezone of exit (second)
data_exit_local_dt_timezone	segmentation_raw_place, analysis_cleaned_place, analysis_cleaned_stop, segmentation_raw_stop	Local datetime in timezone of exit (timezone)
data_exit_local_dt_weekday	segmentation_raw_place, analysis_cleaned_place, segmentation_raw_stop, analysis_cleaned_stop	Local datetime in timezone of exit (weekday)
data_exit_local_dt_year	segmentation_raw_place, analysis_cleaned_place, analysis_cleaned_stop, segmentation_raw_stop	Local datetime in timezone of exit (year)
data_exit_ts	segmentation_raw_place, analysis_cleaned_place, segmentation_raw_stop, analysis_cleaned_stop	Timestamp in seconds
data_expectation_to_label	analysis_confirmed_trip, analysis_expected_trip	Expectation to label
data_expected_trip	analysis_confirmed_trip	Expected trip

data_filter	background_filtered_location, background_location, usercache_background_filtered_location, usercache_background_location, analysis_recreated_location	Filter in phone: distance for ios and time for android
data_filter_distance	config_sensor_config, usercache_config_sensor_config	Distance for the distance filter (unused on android)
data_filter_time	config_sensor_config, usercache_config_sensor_config	Time interval for the time filter (unused on ios)
data_filtering_algo	analysis_smoothing	The name of the algorithm used to filter the points
data_floor	background_filtered_location, background_location, usercache_background_location, usercache_background_filtered_location, analysis_recreated_location	Floor in a building that point is in (only ios)
data_fmt_time	manual_demographic_survey, config_app_ui_config, statemachine_transition, background_motion_activity, background_filtered_location, background_location, usercache_manual_demographic_survey, background_battery, usercache_background_filtered_location, usercache_background_location, analysis_recreated_location	Formatted time
data_geofence_radius	config_sensor_config, usercache_config_sensor_config	Radius for the geofence if we are duty cycling
data_heading	background_filtered_location, background_location, analysis_recreated_location	Heading reported by the phone
data_idx	analysis_recreated_location	The index of this point in this section
data_inferred_labels	analysis_confirmed_trip, analysis_inferred_trip, analysis_expected_trip	Inferred labels

data_inferred_trip	analysis_confirmed_trip, analysis_expected_trip	Inferred trip
data_intro_deployment_partner_name	usercache_config_app_ui_config	Deployment/partner name
data_intro_deployment_partner_name	config_app_ui_config	Deployment partner name
data_intro_mode_studied	config_app_ui_config, usercache_config_app_ui_config	Mode studied
data_intro_program_admin_contact	config_app_ui_config, usercache_config_app_ui_config	Program admin contact
data_intro_program_or_study	config_app_ui_config, usercache_config_app_ui_config	Program/study
data_intro_start_month	config_app_ui_config, usercache_config_app_ui_config	Start month
data_intro_start_year	config_app_ui_config, usercache_config_app_ui_config	Start year
data_intro_translated_text_en_deployment_name	config_app_ui_config, usercache_config_app_ui_config	Deployment name
data_intro_translated_text_en_research_questions	config_app_ui_config, usercache_config_app_ui_config	Research questions
data_intro_translated_text_en_short_textual_description	config_app_ui_config, usercache_config_app_ui_config	Short description
data_intro_translated_text_en_summary_line_1	config_app_ui_config, usercache_config_app_ui_config	1st line of summary
data_intro_translated_text_en_summary_line_2	config_app_ui_config, usercache_config_app_ui_config	2nd line of summary
data_intro_translated_text_en_summary_line_3	config_app_ui_config, usercache_config_app_ui_config	3rd line of summary
data_intro_translated_text_en_why_we_collect	config_app_ui_config, usercache_config_app_ui_config	Explanation of why data is collected
data_intro_translated_text_es_deployment_name	config_app_ui_config, usercache_config_app_ui_config	Deployment name (Spanish)

data_intro_translated_text_es_research_questions	config_app_ui_config, usercache_config_app_ui_config	Research questions (Spanish)
data_intro_translated_text_es_short_textual_description	config_app_ui_config, usercache_config_app_ui_config	Short description (Spanish)
data_intro_translated_text_es_summary_line_1	config_app_ui_config, usercache_config_app_ui_config	1st line of summary (Spanish)
data_intro_translated_text_es_summary_line_2	config_app_ui_config, usercache_config_app_ui_config	2nd line of summary (Spanish)
data_intro_translated_text_es_summary_line_3	config_app_ui_config, usercache_config_app_ui_config	3rd line of summary (Spanish)
data_intro_translated_text_es_why_we_collect_es	config_app_ui_config, usercache_config_app_ui_config	Explanation of why data is collected (Spanish)
data_ios_use_remote_push_for_sync	config_sensor_config, usercache_config_sensor_config	Ios only: whether we should use remote push for sync
data_ios_use_visit_notifications_for_detection	config_sensor_config, usercache_config_sensor_config	Ios only: whether we should use visit notifications or manual checks for detecting trip ends
data_is_duty_cycling	config_sensor_config, usercache_config_sensor_config	Latitude of the point
data_joined_label	config_app_ui_config, usercache_config_app_ui_config	Joined label
data_joined_route	config_app_ui_config, usercache_config_app_ui_config	Joined route
data_joined_source	config_app_ui_config, usercache_config_app_ui_config	Joined source
data_label	usercache_manual_mode_confirm, usercache_manual_purpose_confirm, usercache_manual_replaced_mode, usercache_manual_demographic_survey, manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, manual_demographic_survey	String representation of mode

data_latitude	background_filtered_location, background_location, usercache_background_location, usercache_background_filtered_location, analysis_recreated_location	Latitude of the point
data_loc_coordinates	background_filtered_location, background_location, analysis_recreated_location	Location coordinates
data_loc_latitude	background_location, background_filtered_location, analysis_recreated_location	Location latitude
data_loc_longitude	background_location, background_filtered_location, analysis_recreated_location	Location longitude
data_loc_type	background_filtered_location, background_location, analysis_recreated_location	Location type (point)
data_local_dt_day	statemachine_transition, background_motion_activity, background_battery, background_filtered_location, background_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (day)
data_local_dt_hour	statemachine_transition, background_motion_activity, background_battery, background_location, background_filtered_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (hour)

data_local_dt_minute	statemachine_transition, background_motion_activity, background_battery, background_filtered_location, background_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (minute)
data_local_dt_month	statemachine_transition, background_motion_activity, background_battery, background_filtered_location, background_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (month)
data_local_dt_second	statemachine_transition, background_motion_activity, background_battery, background_location, background_filtered_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (second)
data_local_dt_timezone	statemachine_transition, background_motion_activity, background_battery, background_location, background_filtered_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (timezone)
data_local_dt_weekday	statemachine_transition, background_motion_activity, background_battery, background_filtered_location, background_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (weekday)

data_local_dt_year	statemachine_transition, background_motion_activity, background_battery, background_location, background_filtered_location, analysis_recreated_location, config_app_ui_config, manual_demographic_survey	Local time (year)
data_location_coordinates	segmentation_raw_place, analysis_cleaned_place	Location coordinates
data_location_latitude	segmentation_raw_place, analysis_cleaned_place	Location latitude coordinate
data_location_longitude	segmentation_raw_place, analysis_cleaned_place	Location longitude coordinate
data_location_type	analysis_cleaned_place, segmentation_raw_place	Location type (point)
data_longitude	usercache_background_filtered_location, usercache_background_location, analysis_recreated_location, background_location, background_filtered_location	Longitude of the point
data_metadata_write_ts	analysis_recreated_location	Timestamp in seconds
data_mode	analysis_recreated_location	The mode associated with this point
data_name	stats_server_api_time, stats_pipeline_error, stats_pipeline_time, stats_client_error, stats_client_nav_event, stats_client_time, usercache_config_app_ui_config, usercache_stats_client_error, usercache_manual_demographic_survey, usercache_stats_client_nav_event, usercache_stats_client_time, config_app_ui_config, manual_demographic_survey	Name of the error

data_outlier_algo	analysis_smoothing	The name of the algorithm used to generate outliers
data_predicted_mode_map_air_or_inf	inference_prediction	Predicted mode
data_predicted_mode_map_bicycling	inference_prediction	Predicted mode
data_predicted_mode_map_bus	inference_prediction	Predicted mode
data_predicted_mode_map_car	inference_prediction	Predicted mode
data_predicted_mode_map_light_rail	inference_prediction	Predicted mode
data_predicted_mode_map_subway	inference_prediction	Predicted mode
data_predicted_mode_map_train	inference_prediction	Predicted mode
data_predicted_mode_map_tram	inference_prediction	Predicted mode
data_predicted_mode_map_unknown	inference_prediction	Predicted mode
data_predicted_mode_map_walking	inference_prediction	Predicted mode
data_prediction	inference_labels, analysis_inferred_labels	Prediction
data_profile_controls_support_upload	usercache_config_app_ui_config, config_app_ui_config	Profile controls support upload
data_profile_controls_trip_end_notification	usercache_config_app_ui_config, config_app_ui_config	End of trip notification
data_protocol_id	config_consent, usercache_config_consent	Protocol id
data_raw_places	analysis_cleaned_place	Raw places that were combined to and from this cleaned place
data_raw_trip	analysis_confirmed_trip, analysis_inferred_trip, analysis_expected_trip, analysis_cleaned_trip	Link to the raw trip object that this trip represent

data_reading	stats_server_api_time, stats_pipeline_time, stats_client_nav_event, stats_client_error, stats_client_time, usercache_stats_client_error, usercache_stats_client_nav_event, usercache_stats_client_time	Reading the error
data_reading_dest	stats_client_time, usercache_stats_client_time	Reading destination
data_reading_finalinference	stats_client_time, usercache_stats_client_time	Reading final inference
data_reading_inputkey	stats_client_time, usercache_stats_client_time	Reading input key
data_reading_inputval	stats_client_time, usercache_stats_client_time	Reading input value
data_reading_source	stats_client_time, usercache_stats_client_time	Reading source
data_reading_userinput	stats_client_time, usercache_stats_client_time	Reading user input
data_reading_verifiable	stats_client_time, usercache_stats_client_time	Reading verifiable
data_running	usercache_background_motion_activity, background_motion_activity	True/false
data_section	analysis_smoothing, analysis_recreated_location	The section that this point belongs to
data_section_id	inference_prediction	The section id that this prediction corresponds to
data_sensed_mode	segmentation_raw_section, analysis_inferred_section, analysis_cleaned_section	The mode that the phones sensors picked up

data_sensed_speed	usercache_background_location, usercache_background_filtered_location, background_location, background_filtered_location, analysis_recreated_location	The speed reported by the phone in m/s
data_server_aggregate_call_auth	config_app_ui_config	Server aggregation call
data_server_connecturl	usercache_config_app_ui_config, config_app_ui_config	Server URL
data_simulate_user_interaction	config_sensor_config, usercache_config_sensor_config	Simulate user interaction through generating notifications on every sync
data_source	analysis_cleaned_section, analysis_inferred_trip, segmentation_raw_trip, segmentation_raw_stop, analysis_cleaned_stop, analysis_cleaned_untracked, analysis_inferred_section, analysis_cleaned_place, analysis_cleaned_trip, analysis_confirmed_trip, segmentation_raw_place, segmentation_raw_untracked, segmentation_raw_section, analysis_expected_trip	Shankaris algorithm
data_speed	analysis_recreated_location	The speed calculated by us
data_speeds	analysis_inferred_section, analysis_cleaned_section	Speed profile for this section

data_start_fmt_time	manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, analysis_cleaned_section, analysis_expected_trip, segmentation_raw_trip, analysis_cleaned_untracked, analysis_inferred_section, segmentation_raw_section, analysis_cleaned_trip, analysis_inferred_trip, segmentation_raw_untracked, analysis_confirmed_trip	Start formatted time (in timezone of point)
data_start_loc_coordinates	analysis_cleaned_section, segmentation_raw_section, analysis_inferred_section, segmentation_raw_trip, analysis_confirmed_trip, analysis_cleaned_untracked, analysis_cleaned_trip, analysis_expected_trip, analysis_inferred_trip, segmentation_raw_untracked	Start location coordinates
data_start_loc_latitude	segmentation_raw_untracked, analysis_cleaned_untracked, segmentation_raw_trip, segmentation_raw_section, analysis_cleaned_trip, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, analysis_confirmed_trip	Location latitude coordinate

data_start_loc_longitude	segmentation_raw_untracked, segmentation_raw_trip, analysis_cleaned_untracked, analysis_cleaned_trip, segmentation_raw_section, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, analysis_confirmed_trip	Location longitude coordinate
data_start_loc_type	segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, segmentation_raw_trip, analysis_cleaned_untracked, segmentation_raw_untracked, analysis_inferred_trip, analysis_cleaned_trip, analysis_confirmed_trip	Location type (point)
data_start_local_dt_day	manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, analysis_confirmed_trip, analysis_cleaned_section, segmentation_raw_trip, analysis_inferred_trip, analysis_cleaned_untracked, analysis_inferred_section, segmentation_raw_section, analysis_expected_trip, segmentation_raw_untracked, analysis_cleaned_trip	Start datetime in local time (day)

data_start_local_dt_hour	manual_purpose_confirm, manual_mode_confirm, manual_replaced_mode, analysis_cleaned_section, analysis_cleaned_untracked, segmentation_raw_trip, analysis_confirmed_trip, segmentation_raw_untracked, analysis_inferred_trip, analysis_inferred_section, segmentation_raw_section, analysis_expected_trip, analysis_cleaned_trip	Start datetime in local time (hour)
data_start_local_dt_minute	manual_replaced_mode, manual_purpose_confirm, manual_mode_confirm, analysis_inferred_section, analysis_confirmed_trip, analysis_cleaned_section, analysis_cleaned_untracked, analysis_cleaned_trip, analysis_expected_trip, analysis_inferred_trip, segmentation_raw_trip, segmentation_raw_section, segmentation_raw_untracked	Start datetime in local time (minute)
data_start_local_dt_month	manual_purpose_confirm, analysis_inferred_section, analysis_confirmed_trip, manual_mode_confirm, analysis_expected_trip, segmentation_raw_trip, analysis_cleaned_untracked, segmentation_raw_untracked, analysis_inferred_trip, analysis_cleaned_trip, manual_replaced_mode, analysis_cleaned_section, segmentation_raw_section	Start datetime in local time (month)

data_start_local_dt_second	manual_mode_confirm, manual_replaced_mode, manual_purpose_confirm, segmentation_raw_section, analysis_inferred_trip, analysis_inferred_section, analysis_cleaned_untracked, segmentation_raw_trip, analysis_cleaned_trip, analysis_confirmed_trip, segmentation_raw_untracked, analysis_expected_trip, analysis_cleaned_section	Start datetime in local time (second)
data_start_local_dt_timezone	manual_purpose_confirm, manual_mode_confirm, manual_replaced_mode, analysis_cleaned_trip, analysis_confirmed_trip, analysis_inferred_section, segmentation_raw_untracked, analysis_cleaned_untracked, analysis_inferred_trip, segmentation_raw_section, analysis_expected_trip, segmentation_raw_trip, analysis_cleaned_section	Start datetime in local time (timezone)
data_start_local_dt_weekday	manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, analysis_inferred_section, analysis_cleaned_section, analysis_cleaned_trip, segmentation_raw_untracked, analysis_expected_trip, analysis_cleaned_untracked, analysis_inferred_trip, analysis_confirmed_trip, segmentation_raw_trip, segmentation_raw_section	Start datetime in local time (weekday)

data_start_local_dt_year	analysis_cleaned_section, analysis_confirmed_trip, segmentation_raw_trip, analysis_inferred_trip, analysis_expected_trip, analysis_cleaned_trip, segmentation_raw_untracked, analysis_cleaned_untracked, analysis_inferred_section, segmentation_raw_section, manual_replaced_mode, manual_purpose_confirm, manual_mode_confirm	Start datetime in local time (year)
data_start_place	analysis_cleaned_untracked, segmentation_raw_trip, analysis_inferred_trip, analysis_confirmed_trip, segmentation_raw_untracked, analysis_expected_trip, analysis_cleaned_trip	Id of place object before this one
data_start_stop	segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section	Id of the stop object before this one
data_start_ts	usercache_manual_mode_confirm, usercache_manual_replaced_mode, usercache_manual_purpose_confirm, inference_labels, inference_prediction, analysis_inferred_labels, segmentation_raw_section, analysis_cleaned_untracked, segmentation_raw_trip, analysis_expected_trip, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, segmentation_raw_untracked, analysis_confirmed_trip, analysis_cleaned_trip, manual_replaced_mode, manual_mode_confirm, manual_purpose_confirm	Start utc timestamp (in secs)

data_starting_section	analysis_cleaned_stop, segmentation_raw_stop	Foreing key into trip table / each section has a link to the trip table
data_starting_trip	segmentation_raw_place, analysis_cleaned_place	Foreing key into trip table / each place has a link to the trip table
data_stationary	usercache_background_motion_activity, background_motion_activity	True/false
data_transition	error_statemachine_transition, usercache_statemachine_transition, statemachine_transition	String represenation of the transition
data_trip_end_stationary_mins	config_sensor_config, usercache_config_sensor_config	Time after which we detect that a trip has ended
data_ts	stats_pipeline_error, stats_pipeline_time, stats_server_api_time, stats_client_nav_event, stats_client_error, usercache_background_motion_activity, usercache_stats_client_error, usercache_background_battery, usercache_config_app_ui_config, usercache_statemachine_transition, usercache_stats_client_time, usercache_stats_client_nav_event, usercache_manual_demographic_survey, error_statemachine_transition, usercache_background_location, usercache_background_filtered_location, stats_client_time, statemachine_transition, background_motion_activity, background_battery, analysis_recreated_location, background_filtered_location, background_location, config_app_ui_config, manual_demographic_survey	Time stamp in seconds

data_type	usercache_background_motion_activity, background_motion_activity	In_vehicle = 0, bicycling = 1, still = 3, unknown = 4, tilting = 5, walking = 7, running = 8, none = 9, stopped_while_in_vehicle = 10, air_or_hsr = 11
data_unknown	usercache_background_motion_activity, background_motion_activity	True/false
data_user_id	analysis_recreated_location	User id
data_user_input_mode_confirm	analysis_confirmed_trip	Mode confirm users input (the mode user took)
data_user_input_purpose_confirm	analysis_confirmed_trip	Purpose confirm users input (the user confirms the purpose of their trip) (user confirmed trip)
data_user_input_replaced_mode	analysis_confirmed_trip	Replaced mode users input (the mode user whould have taken if the current mode was not available)
data_vaccuracy	usercache_background_filtered_location, usercache_background_location, background_location, background_filtered_location, analysis_recreated_location	Vertical accuracy of the point (only ios)
data_version	usercache_manual_demographic_survey, manual_demographic_survey	Survey version
data_version	usercache_config_app_ui_config, config_app_ui_config	UI version
data_walking	usercache_background_motion_activity, background_motion_activity	True/false
data_xmlresponse	usercache_manual_demographic_survey, manual_demographic_survey	XML Response
device_token	stage_profile	Push notification token

end_loc_geom_nrel	analysis_cleaned_untracked, segmentation_raw_trip, segmentation_raw_untracked, analysis_cleaned_trip, segmentation_raw_section, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, analysis_confirmed_trip	End location geometry
enter_loc_geom_nrel	segmentation_raw_stop, analysis_cleaned_stop	Enter point geometry
exit_loc_geom_nrel	segmentation_raw_stop, analysis_cleaned_stop	Exit point geometry
invalid	background_filtered_location	Out of order points or just wrong points
location_geom_nrel	usercache_background_location, usercache_background_filtered_location, background_location, segmentation_raw_place, analysis_cleaned_place, background_filtered_location, analysis_recreated_location	Location geometry
manufacturer	stage_profile	Manufacturer of the device

metadata_platform	segmentation_raw_untracked, analysis_cleaned_place, segmentation_raw_stop, analysis_inferred_section, inference_prediction, analysis_inferred_trip, analysis_recreated_location, analysis_smoothing, analysis_inferred_labels, segmentation_raw_trip, analysis_confirmed_trip, segmentation_raw_place, analysis_cleaned_stop, segmentation_raw_section, inference_labels, analysis_cleaned_section, analysis_expected_trip, analysis_cleaned_untracked, analysis_cleaned_trip, usercache_stats_client_error, config_consent, stats_pipeline_error, usercache_background_motion_activity, error_statemachine_transition, usercache_manual_demographic_survey, usercache_config_sensor_config, usercache_config_consent, usercache_manual_purpose_confirm, usercache_manual_mode_confirm, usercache_statemachine_transition, usercache_manual_replaced_mode, usercache_background_filtered_location, usercache_background_location, usercache_stats_client_time, stats_pipeline_time, usercache_stats_client_nav_event, stats_server_api_time, usercache_config_app_ui_config, usercache_background_battery, stats_client_error, stats_client_nav_event, config_sensor_config, statemachine_transition, stats_client_time, background_battery, background_motion_activity, manual_purpose_confirm, manual_mode_confirm, manual_replaced_mode, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Platform (android or ios)
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metadata_plugin	usercontent_manual_purpose_confirm, error_statemachine_transition, usercontent_config_app_ui_config, usercontent_manual_demographic_survey, usercontent_stats_client_nav_event, usercontent_stats_client_time, usercontent_background_location, usercontent_background_filtered_location, usercontent_config_sensor_config, usercontent_manual_replaced_mode, usercontent_background_battery, usercontent_statemachine_transition, usercontent_manual_mode_confirm, usercontent_config_consent, config_consent, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Metadata Plugin type
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metadata_read_ts	usercontent_stats_client_error, usercontent_background_motion_activity, error_statemachine_transition, usercontent_config_consent, usercontent_background_location, usercontent_config_sensor_config, usercontent_manual_mode_confirm, usercontent_background_filtered_location, usercontent_manual_purpose_confirm, usercontent_manual_replaced_mode, usercontent_stats_client_nav_event, usercontent_manual_demographic_survey, usercontent_statemachine_transition, usercontent_background_battery, usercontent_config_app_ui_config, config_consent, usercontent_stats_client_time, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_replaced_mode, manual_purpose_confirm, manual_mode_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Timestamp in seconds
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metadata_time_zone	usercontent_manual_replaced_mode, usercontent_background_battery, usercontent_statemachine_transition, error_statemachine_transition, usercontent_manual_mode_confirm, usercontent_config_app_ui_config, usercontent_manual_demographic_survey, usercontent_stats_client_nav_event, usercontent_stats_client_time, usercontent_manual_purpose_confirm, usercontent_background_motion_activity, usercontent_background_location, usercontent_stats_client_error, usercontent_background_filtered_location, usercontent_config_consent, usercontent_config_sensor_config, segmentation_raw_untracked, analysis_cleaned_place, analysis_cleaned_trip, analysis_expected_trip, analysis_cleaned_untracked, analysis_cleaned_section, inference_labels, segmentation_raw_place, segmentation_raw_section, analysis_confirmed_trip, segmentation_raw_trip, analysis_inferred_labels, analysis_smoothing, analysis_cleaned_stop, analysis_recreated_location, analysis_inferred_trip, inference_prediction, analysis_inferred_section, segmentation_raw_stop, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_mode_confirm, manual_replaced_mode, manual_purpose_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Timezone
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metadata_type	usercontent_background_motion_activity, usercontent_stats_client_error, usercontent_config_sensor_config, usercontent_manual_mode_confirm, usercontent_background_battery, usercontent_config_consent, error_statemachine_transition, usercontent_config_app_ui_config, usercontent_statemachine_transition, usercontent_manual_purpose_confirm, usercontent_stats_client_nav_event, usercontent_manual_demographic_survey, usercontent_background_location, usercontent_stats_client_time, usercontent_manual_replaced_mode, usercontent_background_filtered_location, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_mode_confirm, manual_replaced_mode, manual_purpose_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Metadata type (sensor, message, document, rw_document, local_storage)
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metadata_write_fmt_time	stats_pipeline_error, stats_server_api_time, stats_pipeline_time, config_consent, stats_client_error, stats_client_nav_event, segmentation_raw_place, segmentation_raw_untracked, analysis_inferred_section, analysis_recreated_location, analysis_inferred_trip, inference_labels, analysis_cleaned_section, analysis_cleaned_stop, inference_prediction, analysis_cleaned_trip, segmentation_raw_trip, analysis_cleaned_place, analysis_inferred_labels, segmentation_raw_section, analysis_expected_trip, analysis_confirmed_trip, analysis_smoothing, analysis_cleaned_untracked, segmentation_raw_stop, config_sensor_config, statemachine_transition, stats_client_time, background_battery, background_motion_activity, manual_replaced_mode, manual_purpose_confirm, manual_mode_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Formatted time
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metadata_write_local_dt_day	stats_pipeline_error, segmentation_raw_untracked, analysis_smoothing, segmentation_raw_stop, analysis_cleaned_untracked, analysis_confirmed_trip, segmentation_raw_place, analysis_cleaned_stop, analysis_expected_trip, analysis_inferred_labels, analysis_cleaned_trip, segmentation_raw_trip, analysis_cleaned_place, inference_prediction, segmentation_raw_section, inference_labels, analysis_inferred_trip, analysis_cleaned_section, analysis_recreated_location, analysis_inferred_section, stats_server_api_time, stats_pipeline_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, statemachine_transition, stats_client_time, background_battery, background_motion_activity, manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (day)
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metadata_write_local_dt_hour	analysis_cleaned_place, analysis_cleaned_untracked, segmentation_raw_trip, analysis_cleaned_trip, analysis_cleaned_stop, analysis_smoothing, inference_prediction, segmentation_raw_section, segmentation_raw_untracked, analysis_confirmed_trip, segmentation_raw_place, segmentation_raw_stop, stats_pipeline_error, inference_labels, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_recreated_location, analysis_inferred_labels, analysis_expected_trip, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (hour)
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metadata_write_local_dt_minute	analysis_cleaned_place, analysis_cleaned_untracked, analysis_smoothing, inference_labels, analysis_cleaned_trip, segmentation_raw_trip, analysis_inferred_labels, segmentation_raw_section, analysis_cleaned_stop, analysis_inferred_trip, inference_prediction, segmentation_raw_stop, analysis_cleaned_section, segmentation_raw_untracked, analysis_recreated_location, analysis_confirmed_trip, analysis_expected_trip, analysis_inferred_section, segmentation_raw_place, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_replaced_mode, manual_mode_confirm, manual_purpose_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (minute)
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metadata_write_local_dt_month	analysis_cleaned_place, segmentation_raw_trip, analysis_expected_trip, analysis_inferred_trip, analysis_cleaned_untracked, analysis_cleaned_trip, analysis_inferred_labels, analysis_recreated_location, segmentation_raw_untracked, analysis_cleaned_section, inference_labels, analysis_confirmed_trip, segmentation_raw_section, analysis_smoothing, segmentation_raw_place, segmentation_raw_stop, analysis_inferred_section, inference_prediction, analysis_cleaned_stop, stats_pipeline_error, stats_server_api_time, stats_pipeline_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, statemachine_transition, stats_client_time, background_battery, background_motion_activity, manual_replaced_mode, manual_mode_confirm, manual_purpose_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (month)
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metadata_write_local_dt_second	analysis_smoothing, analysis_confirmed_trip, analysis_cleaned_place, analysis_cleaned_trip, inference_prediction, analysis_inferred_trip, analysis_recreated_location, analysis_inferred_section, segmentation_raw_untracked, segmentation_raw_stop, analysis_cleaned_untracked, analysis_cleaned_section, inference_labels, segmentation_raw_section, segmentation_raw_trip, analysis_inferred_labels, analysis_expected_trip, analysis_cleaned_stop, segmentation_raw_place, stats_pipeline_error, stats_server_api_time, stats_pipeline_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_replaced_mode, manual_mode_confirm, manual_purpose_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (second)
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metadata_write_local_dt_timezone	segmentation_raw_untracked, segmentation_raw_stop, inference_prediction, analysis_cleaned_untracked, analysis_inferred_section, analysis_confirmed_trip, analysis_recreated_location, analysis_smoothing, analysis_expected_trip, analysis_cleaned_stop, segmentation_raw_place, analysis_inferred_trip, inference_labels, segmentation_raw_section, analysis_cleaned_section, analysis_inferred_labels, analysis_cleaned_place, segmentation_raw_trip, analysis_cleaned_trip, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (timezone)
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metadata_write_local_dt_weekday	analysis_cleaned_section, analysis_inferred_trip, analysis_confirmed_trip, analysis_smoothing, segmentation_raw_untracked, inference_labels, segmentation_raw_section, analysis_recreated_location, segmentation_raw_place, analysis_inferred_labels, analysis_cleaned_untracked, segmentation_raw_stop, analysis_expected_trip, analysis_cleaned_place, analysis_cleaned_stop, analysis_cleaned_trip, segmentation_raw_trip, analysis_inferred_section, inference_prediction, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (weekday)
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metadata_write_local_dt_year	analysis_cleaned_stop, segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section, analysis_cleaned_trip, analysis_smoothing, segmentation_raw_place, analysis_confirmed_trip, analysis_cleaned_place, inference_prediction, analysis_recreated_location, analysis_inferred_trip, segmentation_raw_stop, segmentation_raw_untracked, analysis_cleaned_untracked, inference_labels, segmentation_raw_trip, analysis_inferred_labels, analysis_expected_trip, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_replaced_mode, manual_mode_confirm, manual_purpose_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Local time (year)
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metadata_write_ts	analysis_cleaned_stop, segmentation_raw_place, analysis_expected_trip, analysis_inferred_labels, segmentation_raw_trip, segmentation_raw_section, inference_labels, analysis_cleaned_section, usercache_stats_client_error, analysis_cleaned_untracked, segmentation_raw_untracked, segmentation_raw_stop, analysis_inferred_section, analysis_inferred_trip, analysis_recreated_location, usercache_background_motion_activity, inference_prediction, analysis_cleaned_place, analysis_cleaned_trip, analysis_confirmed_trip, analysis_smoothing, usercache_config_sensor_config, usercache_background_filtered_location, usercache_background_location, usercache_stats_client_time, usercache_stats_client_nav_event, usercache_manual_demographic_survey, usercache_manual_purpose_confirm, usercache_config_app_ui_config, usercache_manual_mode_confirm, usercache_config_consent, usercache_statemachine_transition, usercache_manual_replaced_mode, error_statemachine_transition, usercache_background_battery, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, stats_client_time, statemachine_transition, background_battery, background_motion_activity, manual_purpose_confirm, manual_replaced_mode, manual_mode_confirm, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	Timestamp in seconds
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mpg_array	stage_profile	Key
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perno	usercontent_manual_replaced_mode, segmentation_raw_place, usercontent_config_app_ui_config, analysis_recreated_location, usercontent_manual_demographic_survey, analysis_inferred_section, usercontent_manual_purpose_confirm, analysis_cleaned_trip, analysis_cleaned_stop, usercontent_background_motion_activity, usercontent_stats_client_nav_event, usercontent_statemachine_transition, segmentation_raw_section, stage_profile, inference_prediction, segmentation_raw_stop, inference_labels, error_statemachine_transition, analysis_cleaned_section, analysis_cleaned_place, usercontent_background_location, analysis_expected_trip, analysis_inferred_trip, usercontent_stats_client_error, usercontent_background_filtered_location, analysis_cleaned_untracked, analysis_inferred_labels, analysis_smoothing, usercontent_background_battery, usercontent_manual_mode_confirm, usercontent_config_consent, usercontent_config_sensor_config, segmentation_raw_untracked, segmentation_raw_trip, analysis_confirmed_trip, usercontent_stats_client_time, stats_pipeline_error, stats_pipeline_time, stats_server_api_time, config_consent, stats_client_error, stats_client_nav_event, config_sensor_config, statemachine_transition, stats_client_time, background_battery, background_motion_activity, manual_mode_confirm, manual_purpose_confirm, manual_replaced_mode, background_location, background_filtered_location, config_app_ui_config, manual_demographic_survey	User id
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phone_lang	stage_profile	Phone language
source	stage_profile	Platform
start_loc_geom_nrel	segmentation_raw_untracked, analysis_cleaned_untracked, segmentation_raw_trip, analysis_cleaned_trip, segmentation_raw_section, analysis_inferred_trip, analysis_cleaned_section, analysis_inferred_section, analysis_expected_trip, analysis_confirmed_trip	Start location geometry
tripno	inference_labels, analysis_inferred_labels, inference_prediction, segmentation_raw_stop, analysis_cleaned_stop, segmentation_raw_section, analysis_cleaned_section, analysis_inferred_section	Trip number
update_ts	stage_profile	Timestamp in seconds