Uber Data Analysis project

Report

Academic year: Fall 2021-2022

Under the guidence of:

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Submitted by:

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Content:

Summary:

The working of an Uber dataset includes primary
Data on Uber pickups with details including the date, time of the ride as well as longitude-latitude information. Uber data analysis project, data storytelling is an important component of Machine Learning through which companies are able to understand the background of various operations. With the help of visualization, companies can avail the benefit of understanding the complex data and gain insights that would help them to craft decisions.The interesting insights that can be derived from a detailed analysis of the dataset. The ggplot2 on the Uber Pickups dataset and at the end, master the art of data visualization in R.the dataset and to know the effect of each field on price with every other field of the dataset. Then The objective is to first explore hidden or previously unknown information by applying exploratory data analytic on y different R models to complete the analysis. The number of pickups is more during weekends. To alleviate the dynamic price surge, we need to manage the 'supply and demand' of cabs through these events of high demand situations. Based on these results, we can expect that the demand will be high as the temperature drops or after business hours or on weekends, so that: As a Customer: We can plan our trips in advance to avoid paying extra money because of this dynamic price surge. As an Uber Driver: We can maximize profits by choosing to go on trips when these situations occur.

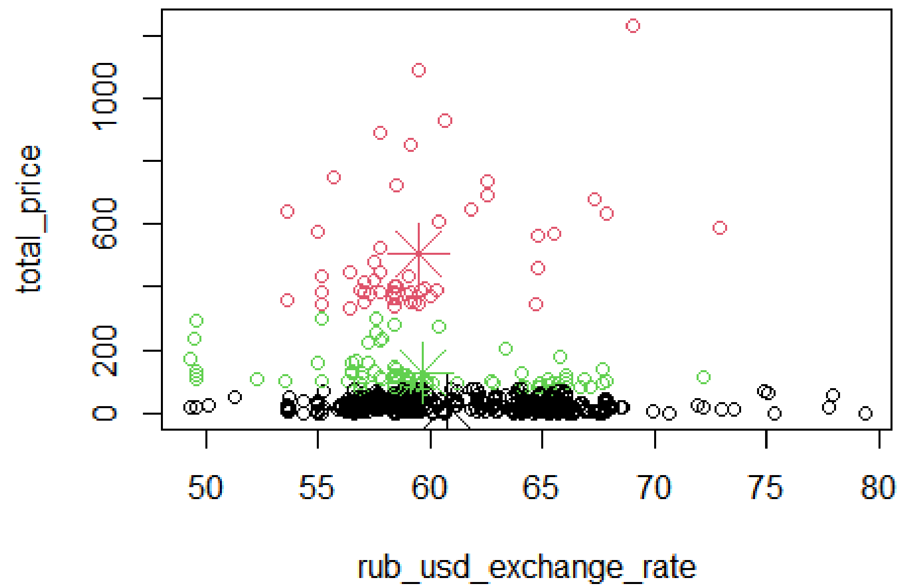
Introduction:

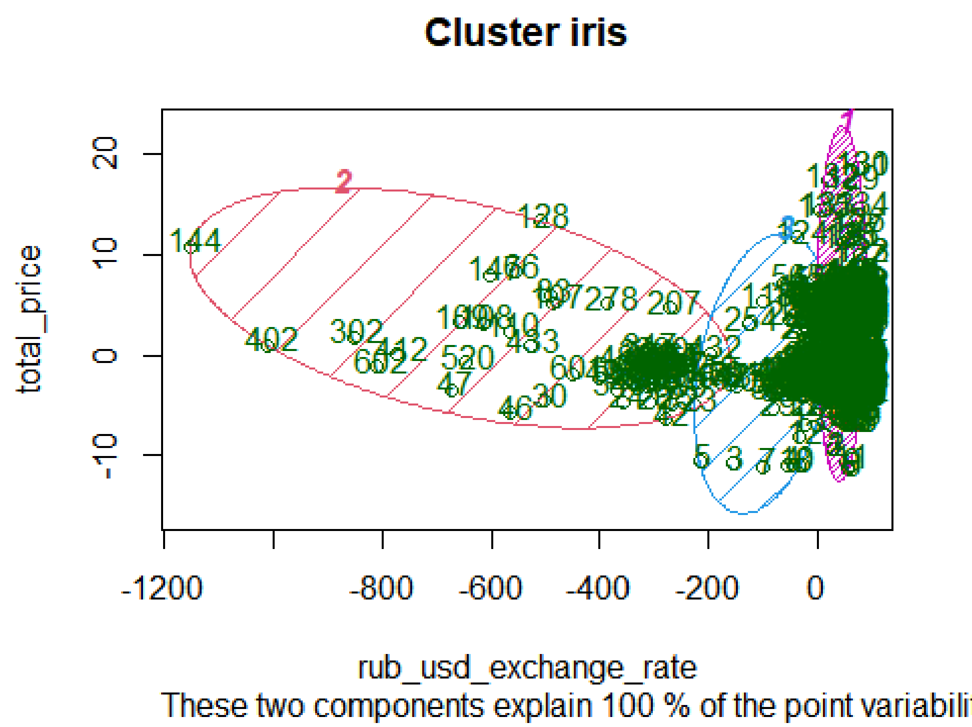
Uber launched in NYC in May of 2011, the first city outside of its San Francisco headquarters. NYC is probably the largest and most lucrative rideshare market in the world, with a total demand (for taxis and for-hire vehicles) in 2017 of more than 240 million trips per year.The number of Uber trips per day in NYC is still growing significantly. In 2017 so far, this number has often surpassed 200,000, but the plot below shows that by mid-2015 it was hovering around 120,000.The data also allows us to visualize other interesting trends over time. In the bar charts below, we can see that the demand for Uber is higher . Saturday has the highest demand. Interestingly, Sunday shows a level of demand similar to Wednesday, which is higher than Monday or Tuesday. When looking at the total demand per month along the period of time analyzed, seasonal effects are masked by the consistent month-to-month growth.

DATA ANALYST:

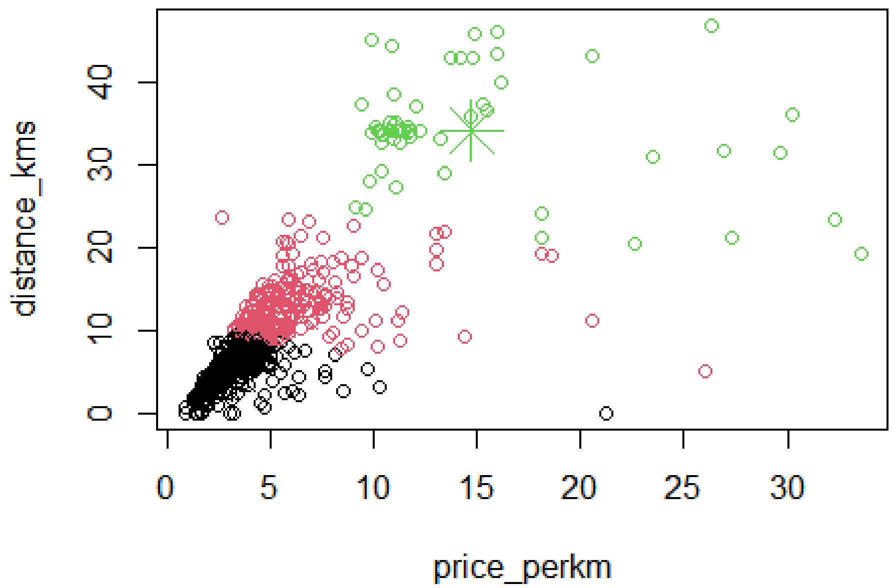
```
library(readr)
uber <- read_csv("C:/Users/siva kumar/Downloads/uber-rides-dataset- updated.csv")

## Rows: 678 Columns: 37

##    Column specification
   --
## Delimiter: ","
## chr   (20): trip_status, trip_uid, driver_uid, rider_uid, customer, trip_star...
## dbl   (12): pickup_lat, pickup_long, dropoff_lat, dropoff_long,
rub_usd_excha...
## dttm   (2): trip_completed_at, temperature_time ##
time        (3): trip_time, total_time, wait_time

##
## i Use `spec()` to retrieve the full column specification for this data. ## i Specify
the column types or set `show_col_types = FALSE` to quiet this message.

df <- uber[,c(7:19,22,24:37)]

# clusterring
library(gtools)
library(ClusterR)
library(cluster)
library(ggplot2)


ClusterFunction <- function(clusterDF){

  kmeans.re <- kmeans(clusterDF, centers = 3)
  plot(clusterDF[c(1,2)], col = kmeans.re$cluster)
  points(kmeans.re$centers, col = 1:3, pch = 8, cex = 3)
  y_kmeans <- kmeans.re$cluster clusplot(clusterDF[,c(1,2)],
            y_kmeans, lines
            = 0, shade =
            TRUE, color =
            TRUE, labels =
            2,
```

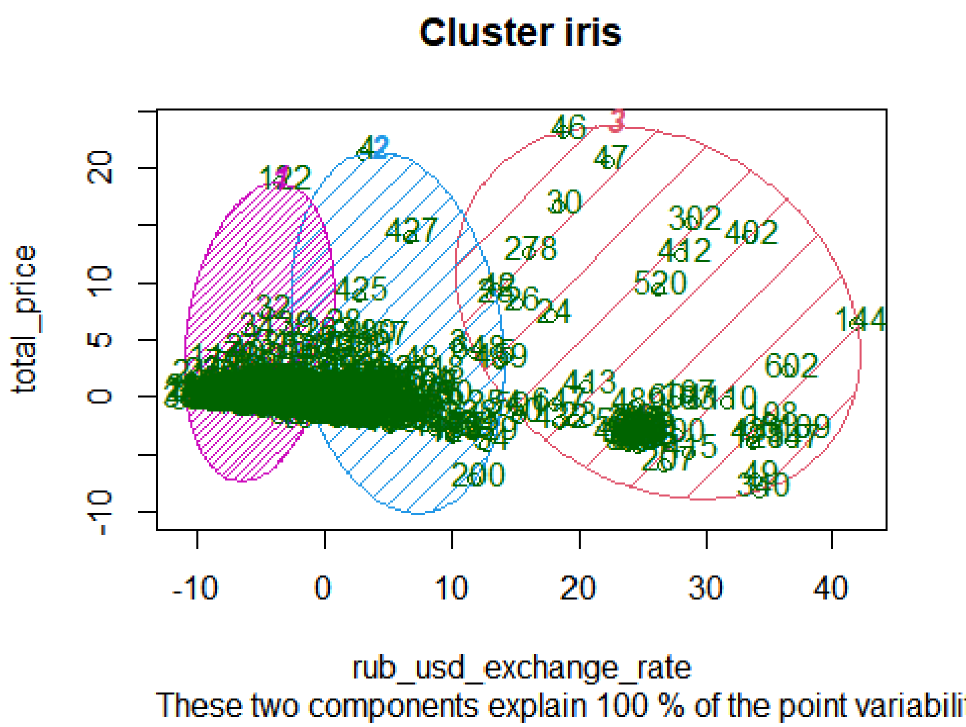
```
            plotchar = FALSE,
            span = TRUE,
            main = paste("Cluster iris"), xlab =
            'rub_usd_exchange_rate', ylab =
            'total_price')

}

# clustering Prize
ClusterFunction(df[,c(17,18)])
```





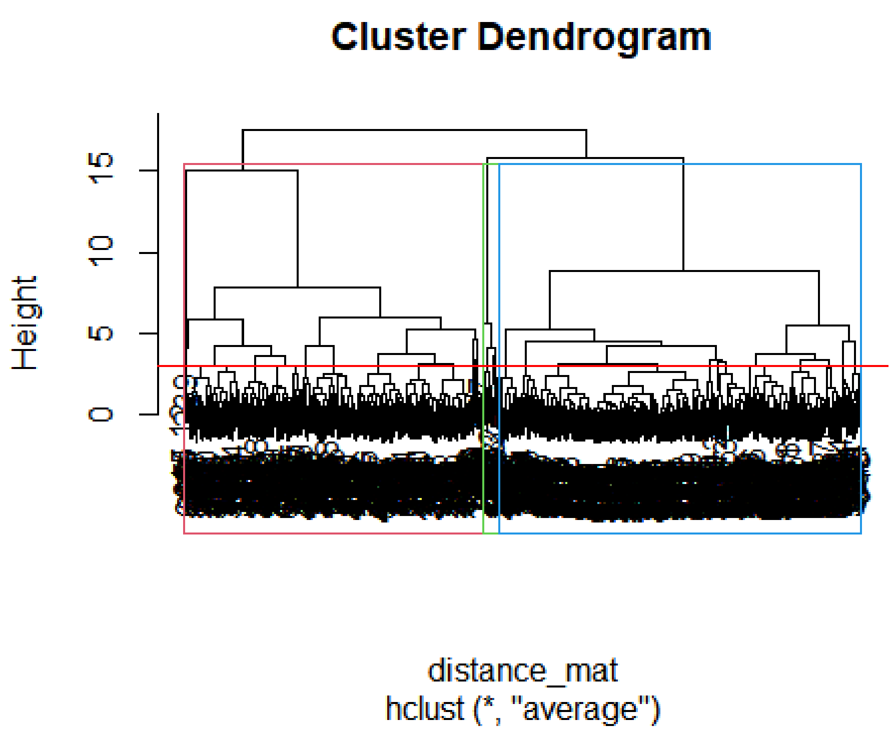

```
# Clustering Km
ClusterFunction(df[,c(19,20)])
```



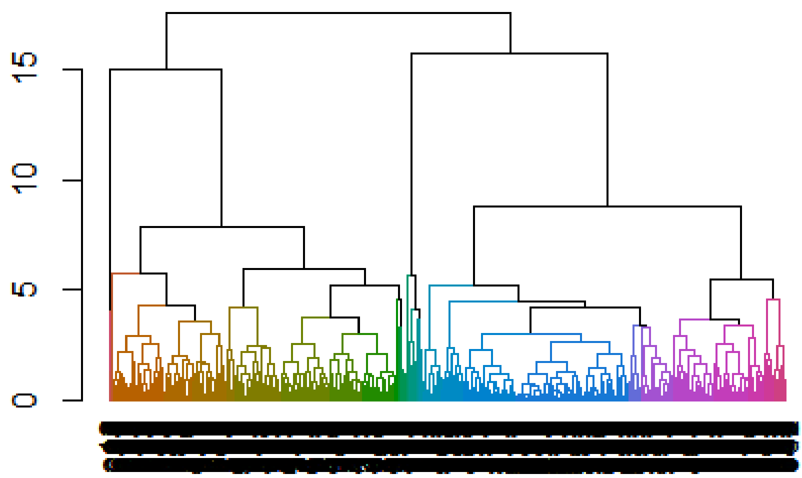



```r
# Hierarchical clustering
Hcluster <- df[,c(22,24:26)]

distance_mat <- dist(Hcluster, method = 'euclidean')
```

```
## Warning in dist(Hcluster, method = "euclidean"): NAs introduced by coercion

Hierar_cl <- hclust(distance_mat, method = "average")
Hierar_cl

##
## Call:
## hclust(d = distance_mat, method = "average") ##
## Cluster method   : average ##
 Distance        : euclidean ## Number
 of objects: 678

cut_avg <- cutree(Hierar_cl, k = 3)
 plot(Hierar_cl)
rect.hclust(Hierar_cl , k = 3, border = 2:6) abline(h = 3,
 col = 'red')
```




```
suppressPackageStartupMessages(library(dendextend))
## Warning: package 'dendextend' was built under R version 4.1.2 avg_dend_obj <-
 as.dendrogram(Hierar_cl)
avg_col_dend <- color_branches(avg_dend_obj, h = 3) plot(avg_col_dend)
```


15
10
5
0

Data Scientist:

Dataset:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	trip_comple	trip_status	trip_uid	driver_uid	rider_uid	customer	trip_start_ti	trip_end_tir	trip_time	total_time	wait_time	vehicle_mal	driver_name	vehicle_mal	driver_gend	pickup_lat	pickup_long	dropoff_lat	dropoff_lon	trip_map_in	trip_p
2	#########	Completed	ee89076fd9	05cfeb269e	3ffa4a71a5	stantyan	#########	#########	0:21:33	0:29:00	0:07:27	Ford Focus	Maksim	Ford	Male	60.031438	30.329826	59.963131	30.307655	[ANONYMIZ	[ANO
3	#########	Completed	518be51d4(	4a4e248742	3ffa4a71a5	stantyan	#########	#########	0:19:27	0:26:00	0:06:33	Hyundai Sol	Sergey	Hyundai	Male	59.963014	30.307313	60.031351	30.329495	[ANONYMIZ	[ANO
4	#########	Completed	6e460cc8a1	cb249a2bd8	3ffa4a71a5	stantyan	13-05-2015	13-05-2015	1:06:53	1:23:00	0:16:07	Renault Flue	Oleg	Renault	Male	60.031529	30.329416	59.924281	30.387561	[ANONYMIZ	[ANO
5	#########	Completed	49613a86a(	d3f73f8151	3ffa4a71a5	stantyan	16-05-2015	16-05-2015	0:13:37	0:20:00	0:06:23	Mercedes-B	Maksim	Mercedes-B	Male	59.959883	30.311159	59.93468	30.308489	[ANONYMIZ	[ANO
6	#########	Completed	9896148fde	1287d21e64	3ffa4a71a5	stantyan	16-05-2015	16-05-2015	0:38:54	0:49:00	0:10:06	Hyundai Sol	Eduard	Hyundai	Male	59.934813	30.308553	60.03147	30.329402	[ANONYMIZ	[ANO
7	#########	Completed	5c0312a92f	fc6b151637	3ffa4a71a5	stantyan	18-05-2015	18-05-2015	0:16:38	0:34:00	0:17:22	Hyundai Sol	Andrey	Hyundai	Male	59.925603	30.321773	59.928813	30.388147	[ANONYMIZ	[ANO
8	#########	Completed	4ad2e95481	1b926e88a8	3ffa4a71a5	stantyan	18-05-2015	18-05-2015	0:40:24	0:44:00	0:03:36	Volkswagen	Igor	Volkswagen	Male	59.9287	30.387829	60.031336	30.329518	[ANONYMIZ	[ANO
9	#########	Completed	1e3935b05a	439ae2cf8a	3ffa4a71a5	stantyan	19-05-2015	19-05-2015	0:41:56	0:58:00	0:16:04	Hyundai Sol	Muhammed	Hyundai	Male	60.031592	30.330248	59.944279	30.359076	[ANONYMIZ	[ANO
10	#########	Completed	0eb9a9f7a3	75a4c47c32	3ffa4a71a5	stantyan	19-05-2015	19-05-2015	0:10:06	0:15:00	0:04:54	Hyundai ix3	Vladimir	Hyundai	Male	59.945143	30.356079	59.929122	30.388656	[ANONYMIZ	[ANO
11	#########	Completed	b56495d14	176f50c424	3ffa4a71a5	stantyan	19-05-2015	19-05-2015	0:25:30	0:33:00	0:07:30	Volkswagen	Roman	Volkswagen	Male	59.92865	30.388166	60.031366	30.329493	[ANONYMIZ	[ANO
12	#########	Completed	613f3deb51	e51623399	3ffa4a71a5	stantyan	20-05-2015	20-05-2015	0:17:47	0:26:00	0:08:13	Hyundai Sol	Aleksey	Hyundai	Male	59.925556	30.321134	59.929301	30.388775	[ANONYMIZ	[ANO
13	#########	Completed	0d486aced5	a81952458	3ffa4a71a5	stantyan	31-05-2015	31-05-2015	0:14:28	0:27:00	0:12:32	Hyundai Sol	Ekaterina	Hyundai	Female	56.752253	60.805972	56.794567	60.614053	[ANONYMIZ	[ANO
14	#########	Completed	d12da2c7ae	f065223fa8	3ffa4a71a5	stantyan	#########	#########	0:15:19	0:28:00	0:12:41	Ford Monde	Oleg	Ford	Male	56.751753	60.803867	56.796019	60.614159	[ANONYMIZ	[ANO
15	#########	Completed	36695e9088	b897afbe68	3ffa4a71a5	stantyan	#########	#########	0:50:13	1:04:00	0:13:47	Ford Focus	Aleksandr	Ford	Male	56.795387	60.612997	56.857545	60.6063	[ANONYMIZ	[ANO
16	#########	Completed	30bd4a26ca	ef33153fbc	3ffa4a71a5	stantyan	#########	#########	0:12:39	0:37:00	0:24:21	Hyundai Sol	Sergey	Hyundai	Male	56.857754	60.606077	56.857726	60.606094	[ANONYMIZ	[ANO
17	#########	Completed	3e95596617	b6584dd094	3ffa4a71a5	stantyan	#########	#########	0:16:18	0:34:00	0:17:42	Kia Rio	Aleksey	Kia	Male	56.795207	60.612907	56.857543	60.606187	[ANONYMIZ	[ANO
18	#########	Completed	4669e3d964	c85086781a	3ffa4a71a5	stantyan	#########	#########	0:11:27	0:25:00	0:13:33	Nissan Alme	Andrey	Nissan	Male	56.795483	60.612903	56.8283	60.597542	[ANONYMIZ	[ANO
19	#########	Completed	a7e321acb3	d505ef8cb3	3ffa4a71a5	stantyan	#########	#########	0:16:39	0:30:00	0:13:21	Kia Rio	Ekaterina	Kia	Female	56.795296	60.612885	56.817396	60.634999	[ANONYMIZ	[ANO
20	#########	Completed	8e9c9603d9	97e28e41c9	3ffa4a71a5	stantyan	#########	#########	0:16:28	0:27:00	0:10:32	Hyundai Sol	Aleksandr	Hyundai	Male	56.795367	60.614292	56.750943	60.801553	[ANONYMIZ	[ANO
21	#########	Completed	e01e7067e5	767a9c87d4	3ffa4a71a5	stantyan	#########	#########	0:14:13	0:17:00	0:02:47	Hyundai Sol	Sergey	Hyundai	Male	59.925502	30.339049	59.948717	30.303298	[ANONYMIZ	[ANO
22	#########	Completed	c9df3a9edb	151944a8f9	3ffa4a71a5	stantyan	#########	#########	0:21:12	0:36:00	0:14:48	Chevrolet C	Oleg	Chevrolet	Male	59.951232	30.310537	60.011847	30.434048	[ANONYMIZ	[ANO
23	#########	Cancelled	b970e99cf7	a89bc69e84	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:01:00	0:46:00	0:45:00	Mercedes-B	Pavel	Mercedes-B	Male	59.799903	30.273236	59.799903	30.273236	[ANONYMIZ	[ANO
24	#########	Completed	945269c950	2f5f40db71	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:45:40	0:54:00	0:08:20	Kia Cee'd	Maksim	Kia	Male	59.929035	30.356715	60.056114	30.427891	[ANONYMIZ	[ANO
25	#########	Completed	04f14fe72a	6b3642ae75	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:30:44	0:40:00	0:09:16	Mitsubishi A	Sergey	Mitsubishi	Male	60.016182	30.409457	60.02793	30.634919	[ANONYMIZ	[ANO
26	#########	Completed	fdbd229175	69f4e9a875	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:25:18	0:30:00	0:04:42	Nissan Alme	Artem	Nissan	Male	59.927837	30.337983	59.800195	30.274495	[ANONYMIZ	[ANO
27	#########	Completed	d4984dfe40	e1992ce90a	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:30:18	0:37:00	0:06:42	Honda Civic	Finat	Honda	Male	59.927697	30.338072	59.927216	30.33929	[ANONYMIZ	[ANO
28	#########	Completed	57bd0828f1	b2cadbd6ea	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:09:33	0:19:00	0:09:27	Mercedes-B	Gennadiy	Mercedes-B	Male	59.927608	30.338298	59.93286	30.345696	[ANONYMIZ	[ANO
29	#########	Completed	268145a88a	a45d6a7464	3ffa4a71a5	stantyan	14-06-2015	14-06-2015	0:22:31	0:29:00	0:06:29	Audi A7	Ramil	Audi	Male	59.932907	30.345892	59.927743	30.337948	[ANONYMIZ	[ANO
30	#########	Completed	9622fd4e18	78aab4ce1c	3ffa4a71a5	stantyan	15-06-2015	15-06-2015	0:45:00	0:57:00	0:12:00	Mitsubishi C	Evgeniy	Mitsubishi	Male	60.01593	30.407802	59.927729	30.335885	[ANONYMIZ	[ANO
31	#########	Completed	72801dd197	3613586d8(	3ffa4a71a5	stantyan	15-06-2015	15-06-2015	1:08:04	1:28:00	0:19:56	Kia Rio	Kryuchkov	Kia	Male	59.799339	30.274062	59.927757	30.337976	[ANONYMIZ	[ANO
32	#########	Completed	f374f9aad4	a4c34b4a8c	3ffa4a71a5	stantyan	15-06-2015	15-06-2015	0:12:28	0:27:00	0:14:32	BMW 5-seri	Sergey	BMW	Male	59.927516	30.338062	59.918768	30.285588	[ANONYMIZ	[ANO

uber-rides-dataset-updated

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
41	#########	Completed	cb06523d18	66cb6d76e5	3ffa4a71a5	stantyan	16-06-2015	16-06-2015	0:07:30	0:21:00	0:13:30	BMW 5-seri	Yana	BMW	Female	59.943622	30.32664	59.927673	30.33796	[ANONYMIZ	[ANON
42	#########	Completed	94ff538a9d	9d9dbe8400	3ffa4a71a5	stantyan	17-06-2015	17-06-2015	0:10:20	0:22:00	0:11:40	Opel Astra	Tatyana	Opel	Female	59.918799	30.285494	59.927643	30.338161	[ANONYMIZ	[ANON
43	#########	Completed	9e4c25f004	1ca0a7c5fb	3ffa4a71a5	stantyan	17-06-2015	17-06-2015	0:31:09	0:38:00	0:06:51	Ford Focus	Vadim	Ford	Male	59.927612	30.338089	59.800281	30.274314	[ANONYMIZ	[ANON
44	#########	Completed	ad25b0145	c7a97f8bd6	3ffa4a71a5	stantyan	17-06-2015	17-06-2015	0:28:17	0:30:00	0:01:43	Kia Optima	Nikolay	Kia	Male	59.92891	30.335499	59.914004	30.341825	[ANONYMIZ	[ANON
45	#########	Completed	03210d1c2a	6410050a39	3ffa4a71a5	stantyan	17-06-2015	17-06-2015	0:29:50	0:45:00	0:15:10	Audi Q3	Andrey	Audi	Male	59.913822	30.341858	59.927962	30.337645	[ANONYMIZ	[ANON
46	#########	Completed	e912743c9a	fc8157aa69	3ffa4a71a5	stantyan	17-06-2015	17-06-2015	0:11:39	0:27:00	0:15:21	Citroen C4	Aleksandr	Citroen	Male	59.929053	30.356678	59.928041	30.336991	[ANONYMIZ	[ANON
47	#########	Completed	f981dcaa5c	d3f73f8151	3ffa4a71a5	stantyan	17-06-2015	17-06-2015	0:48:13	0:57:00	0:08:47	Mercedes-B	Maksim	Mercedes-B	Male	59.927689	30.337908	59.800026	30.274172	[ANONYMIZ	[ANON
48	#########	Completed	910b27c47f	a7d863211	3ffa4a71a5	stantyan	29-06-2015	29-06-2015	0:31:20	0:46:00	0:14:40	Mercedes-B	Aleksandr	Mercedes-B	Male	59.928982	30.356505	59.800015	30.27378	[ANONYMIZ	[ANON
49	#########	Completed	e4004a6b46	bbe2b7c592	3ffa4a71a5	stantyan	#########	#########	1:02:01	1:17:00	0:14:59	Chevrolet C	Anton	Chevrolet	Male	59.938426	30.348279	60.015673	30.409926	[ANONYMIZ	[ANON
50	#########	Completed	e49979ce97	e44cceba36	3ffa4a71a5	stantyan	#########	#########	0:37:41	0:45:00	0:07:19	Ford Focus	Valeriy	Ford	Male	60.016093	30.40966	59.842317	30.319145	[ANONYMIZ	[ANON
51	#########	Completed	4d92ff7d2e	72d4ed2f0c	3ffa4a71a5	stantyan	#########	#########	0:42:26	0:55:00	0:12:34	Honda CR-V	Aleksey	Honda	Male	60.01616	30.409194	59.84233	30.319067	[ANONYMIZ	[ANON
52	#########	Completed	0697b6dd1(	bb10f17be2	3ffa4a71a5	stantyan	#########	#########	0:05:24	0:08:00	0:02:36	Hyundai Sol	Denis	Hyundai	Male	60.015113	30.388899	60.01593	30.407802	[ANONYMIZ	[ANON
53	#########	Completed	54b6a258d6	6035b1f913	3ffa4a71a5	stantyan	#########	#########	0:23:40	2:35:00	2:11:20	Hyundai Sol	Viktor	Hyundai	Male	56.795427	60.612876	56.842798	60.593533	[ANONYMIZ	[ANON
54	#########	Completed	2a545858dc	b314c4ed51	3ffa4a71a5	stantyan	#########	#########	0:13:29	0:33:00	0:19:31	Suzuki Swift	Valentin	Suzuki	Male	56.835338	60.599533	56.795247	60.612822	[ANONYMIZ	[ANON
55	#########	Completed	2bf08f36d2	08e2b4b736	3ffa4a71a5	stantyan	#########	#########	0:30:25	0:42:00	0:11:35	Kia Optima	Konstantin	Kia	Male	56.818351	60.538783	56.754579	60.809916	[ANONYMIZ	[ANON
56	#########	Completed	a66a7fde34	08e2b4b736	3ffa4a71a5	stantyan	#########	#########	0:24:35	0:25:00	0:00:25	Volkswagen	Konstantin	Volkswagen	Male	56.754657	60.809913	56.794925	60.609017	[ANONYMIZ	[ANON
57	#########	Completed	1ab9e6f3cb	acfdcb8355	3ffa4a71a5	stantyan	#########	#########	0:11:27	0:19:00	0:07:33	Hyundai Sol	Dmitriy	Hyundai	Male	56.795531	60.612566	56.827389	60.598018	[ANONYMIZ	[ANON
58	#########	Completed	328a7ed093	2d20c209a5	3ffa4a71a5	stantyan	#########	#########	0:12:23	0:28:00	0:15:37	Nissan Alme	Konstantin	Nissan	Male	56.827501	60.597904	56.795447	60.612977	[ANONYMIZ	[ANON
59	#########	Completed	2f4b8c68a2	b4617db77f	3ffa4a71a5	stantyan	#########	#########	0:14:53	0:24:00	0:09:07	Renault Dus	Mihail	Renault	Male	56.803948	60.555167	56.795337	60.612807	[ANONYMIZ	[ANON
60	#########	Completed	444819db0c	2e214d1c9f	3ffa4a71a5	stantyan	#########	#########	0:15:37	0:31:00	0:15:23	Mazda MAZ	Vladimir	Mazda	Male	56.795439	60.612664	56.843381	60.591195	[ANONYMIZ	[ANON
61	#########	Completed	0fffa07abb8	74042fe65b	3ffa4a71a5	stantyan	#########	#########	0:15:41	0:22:00	0:06:19	Volkswagen	Anton	Volkswagen	Male	56.795458	60.612796	56.842877	60.594053	[ANONYMIZ	[ANON
62	#########	Completed	87539006f2	51d2fca895	3ffa4a71a5	stantyan	#########	#########	0:13:52	0:18:00	0:04:08	Peugeot 20	Danil	Peugeot	Male	56.837945	60.600501	56.796989	60.614437	[ANONYMIZ	[ANON
63	#########	Completed	7590c2e055	8ddd6d1fc2	3ffa4a71a5	stantyan	13-09-2015	13-09-2015	0:18:46	0:26:00	0:07:14	Dacia Duste	Nikolay	Dacia	Male	60.015903	30.409211	60.004901	30.299059	[ANONYMIZ	[ANON
64	#########	Completed	15aaea4b6e	c61a6ab054	3ffa4a71a5	stantyan	13-09-2015	13-09-2015	0:20:01	0:28:00	0:07:59	Hyundai Sol	Igor	Hyundai	Male	60.004807	30.299834	60.016069	30.409218	[ANONYMIZ	[ANON
65	#########	Completed	4e1c923546	672e11ff3f2	3ffa4a71a5	stantyan	13-09-2015	13-09-2015	0:13:00	0:35:00	0:22:00	Chrysler Vo	Nikolay	Chrysler	Male	56.795383	60.611239	56.750034	60.802219	[ANONYMIZ	[ANON
66	#########	Completed	cd2550e2ffl	c02023222f	3ffa4a71a5	stantyan	13-09-2015	13-09-2015	0:29:37	2:48:00	2:18:23	Renault Nev	Vladimir	Renault	Male	56.750988	60.799555	56.829888	60.56663	[ANONYMIZ	[ANON
67	#########	Completed	c21b0a0c97	0927f61a3f	3ffa4a71a5	stantyan	13-09-2015	13-09-2015	0:32:39	0:39:00	0:06:21	Nissan X-Tra	Vyacheslav	Nissan	Male	59.79903	30.273573	60.0161	30.409211	[ANONYMIZ	[ANON
68	#########	Completed	5f930c5aa9	c9f2a70459	3ffa4a71a5	stantyan	14-09-2015	14-09-2015	0:16:01	0:27:00	0:10:59	Renault Me	Sergey	Renault	Male	60.013617	30.395937	60.03538	30.441083	[ANONYMIZ	[ANON
69	#########	Completed	c967cf6ce2	ddb3e70a1e	3ffa4a71a5	stantyan	16-09-2015	16-09-2015	0:07:45	0:19:00	0:11:15	Hyundai Sol	Andrey	Hyundai	Male	60.016136	30.409377	60.033	30.367926	[ANONYMIZ	[ANON
70	#########	Completed	ea8a5c5086	166cfe40ae	3ffa4a71a5	stantyan	16-09-2015	16-09-2015	0:11:27	0:14:00	0:02:33	Mazda MAZ	Ilya	Mazda	Male	60.033322	30.366692	60.016172	30.409271	[ANONYMIZ	[ANON
71	#########	Completed	bfbadc7fa1	83a10afa3b	3ffa4a71a5	stantyan	17-09-2015	17-09-2015	0:10:47	0:18:00	0:07:13	BMW 7-seri	Konstantin	BMW	Male	60.015875	30.409196	60.01354	30.392946	[ANONYMIZ	[ANON
72	#########	Completed	05ffea32f3	b563e7c6a8	3ffa4a71a5	stantyan	17-09-2015	17-09-2015	0:29:05	0:45:00	0:15:55	Opel Astra	Aleksandr	Opel	Male	60.016183	30.409367	59.971127	30.258715	[ANONYMIZ	[ANON

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A1 Oleg

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
81	#########	Completed	51785bfdf5	730fbb4bf8	3ffa4a71a5	stantyan	23-09-2015	23-09-2015	0:53:13	1:00:00	0:06:47	Mitsubishi L	Roman	Mitsubishi	Male	60.016037	30.409295	59.934462	30.332792	[ANONYMIZ	[ANON
82	#########	Completed	f162b9735f	8377b615fd	3ffa4a71a5	stantyan	23-09-2015	23-09-2015	0:22:18	0:34:00	0:11:42	Volkswagen	Aleksey	Volkswagen	Male	60.016139	30.409163	60.03487	30.328099	[ANONYMIZ	[ANON
83	#########	Completed	920b887efe	77b9a7fbfc	3ffa4a71a5	stantyan	23-09-2015	23-09-2015	0:14:33	0:21:00	0:06:27	Chevrolet C	Oleg	Chevrolet	Male	60.034757	30.327048	60.016137	30.409249	[ANONYMIZ	[ANON
84	#########	Completed	b40cb7dc34	be257214ec	3ffa4a71a5	stantyan	25-09-2015	25-09-2015	0:41:32	0:52:00	0:10:28	Hyundai Sol	Evgeniy	Hyundai	Male	60.01615	30.40959	60.092162	30.496485	[ANONYMIZ	[ANON
85	#########	Completed	83fb008944	2e0ecf0655	3ffa4a71a5	stantyan	26-09-2015	26-09-2015	0:06:44	0:18:00	0:11:16	Hyundai Sol	Gennadiy	Hyundai	Male	60.016327	30.409493	60.01452	30.391047	[ANONYMIZ	[ANON
86	#########	Completed	dc564226eb	0a66f0b182	3ffa4a71a5	stantyan	26-09-2015	26-09-2015	0:16:04	0:34:00	0:17:56	Audi A6	Andrey	Audi	Male	60.016192	30.409451	60.058316	30.337183	[ANONYMIZ	[ANON
87	#########	Completed	cbaccf2e9b	bd870aa56c	3ffa4a71a5	stantyan	26-09-2015	26-09-2015	0:10:24	0:21:00	0:10:36	Skoda Octa	Albert	Skoda	Male	56.803946	60.555391	56.830035	60.567308	[ANONYMIZ	[ANON
88	#########	Completed	8483ac3020	ef33153fbc	3ffa4a71a5	stantyan	26-09-2015	26-09-2015	0:17:39	0:28:00	0:10:21	Opel Astra	Sergey	Opel	Male	56.830015	60.567346	56.795512	60.614259	[ANONYMIZ	[ANON
89	#########	Completed	8c4de3cc84	95a0a7bfed	3ffa4a71a5	stantyan	26-09-2015	26-09-2015	0:17:34	0:21:00	0:03:26	Hyundai Sol	Mihail	Hyundai	Male	60.05858	30.336323	60.016337	30.409385	[ANONYMIZ	[ANON
90	#########	Completed	db7b80965c	1f49c09d58	3ffa4a71a5	stantyan	27-09-2015	27-09-2015	0:17:29	0:29:00	0:11:31	Toyota RAV	Arkadiy	Toyota	Male	60.016068	30.409528	59.95758	30.358943	[ANONYMIZ	[ANON
91	#########	Completed	daba5c623b	2c9a3f60a0	3ffa4a71a5	stantyan	27-09-2015	27-09-2015	0:23:19	0:30:00	0:06:41	Kia Cee'd Sp	Maksim	Kia	Male	59.957712	30.359077	60.0162	30.409267	[ANONYMIZ	[ANON
92	#########	Completed	037a51252c	a65ad3cce5	3ffa4a71a5	stantyan	27-09-2015	27-09-2015	0:10:41	0:20:00	0:09:19	Hyundai Sol	Oleg	Hyundai	Male	60.016175	30.409491	59.986364	30.354591	[ANONYMIZ	[ANON
93	#########	Completed	6b4c37de57	161951a22e	3ffa4a71a5	stantyan	27-09-2015	27-09-2015	0:11:24	0:21:00	0:09:36	Lifan Solanc	Ivan	Lifan	Male	59.986255	30.355476	60.016057	30.40921	[ANONYMIZ	[ANON
94	#########	Completed	e73e9ef378	5edf276511	3ffa4a71a5	stantyan	28-09-2015	28-09-2015	0:05:42	0:19:00	0:13:18	Saturn Astra	Vadim	Saturn	Male	60.0108	30.406916	60.021694	30.372496	[ANONYMIZ	[ANON
95	#########	Completed	b920a8c910	2907702640	3ffa4a71a5	stantyan	28-09-2015	28-09-2015	0:10:55	0:19:00	0:08:05	Volkswagen	Aleksandr	Volkswagen	Male	60.021605	30.37288	60.016165	30.409388	[ANONYMIZ	[ANON
96	#########	Completed	e0578dcecf	1031ddfed1	3ffa4a71a5	stantyan	28-09-2015	28-09-2015	0:05:49	0:09:00	0:03:11	Mazda MAZ	Pavel	Mazda	Male	60.0148	30.389778	60.016178	30.409392	[ANONYMIZ	[ANON
97	#########	Completed	62a6b43eac	81ca2b70b6	3ffa4a71a5	stantyan	29-09-2015	29-09-2015	0:32:15	0:44:00	0:11:45	Chevrolet La	Vladimir	Chevrolet	Male	60.016145	30.409429	59.957628	30.359025	[ANONYMIZ	[ANON
98	#########	Completed	300357121f	7744054062	3ffa4a71a5	stantyan	29-09-2015	29-09-2015	0:25:52	0:36:00	0:10:08	Nissan Alme	Oleg	Nissan	Male	59.957964	30.359245	60.016196	30.409335	[ANONYMIZ	[ANON
99	#########	Completed	8bbd296ccf	4093ae4a2e	3ffa4a71a5	stantyan	29-09-2015	29-09-2015	0:16:44	0:30:00	0:13:16	Hyundai Sol	Pavel	Hyundai	Male	60.016213	30.409406	59.989577	30.438282	[ANONYMIZ	[ANON
100	#########	Completed	628e670f26	ca9d5dd796	3ffa4a71a5	stantyan	29-09-2015	29-09-2015	0:22:06	0:35:00	0:12:54	Toyota Cor	Aleksandr	Toyota	Male	59.989583	30.438283	60.015317	30.410871	[ANONYMIZ	[ANON
101	#########	Completed	e65ae2777b	ca9d5dd796	3ffa4a71a5	stantyan	29-09-2015	29-09-2015	0:07:21	0:16:00	0:08:39	Hyundai Sol	Aleksandr	Hyundai	Male	60.016149	30.409443	60.013977	30.393789	[ANONYMIZ	[ANON
102	#########	Completed	563cd1f3e0	dbcb06a53c	3ffa4a71a5	stantyan	30-09-2015	30-09-2015	0:23:53	0:32:00	0:08:07	Volkswagen	Evgeniy	Volkswagen	Male	60.016165	30.409247	60.053023	30.331417	[ANONYMIZ	[ANON
103	#########	Completed	fd7a0b1815	05cfeb269e	3ffa4a71a5	stantyan	30-09-2015	30-09-2015	0:14:20	0:19:00	0:04:40	Kia Rio	Maksim	Kia	Male	60.034892	30.327693	60.01599	30.409209	[ANONYMIZ	[ANON
104	#########	Completed	0ee6644101	21444fa76d	3ffa4a71a5	stantyan	#########	#########	0:34:17	0:41:00	0:06:43	Volkswagen	Dmitriy	Volkswagen	Male	60.016169	30.409301	59.981884	30.212471	[ANONYMIZ	[ANON
105	#########	Completed	864c3cefc0	89de0fed4e	3ffa4a71a5	stantyan	#########	#########	0:02:56	0:12:00	0:09:04	Renault Me	Vladimir	Renault	Male	59.986561	30.221763	59.987892	30.205385	[ANONYMIZ	[ANON
106	#########	Completed	61c4f1b767	20db81eb8b	3ffa4a71a5	stantyan	#########	#########	0:33:31	0:38:00	0:04:29	Ford Focus	Ilya	Ford	Male	59.987967	30.203975	59.94247	30.355711	[ANONYMIZ	[ANON
107	#########	Completed	52091a0c3a	c24e3efee4	3ffa4a71a5	stantyan	#########	#########	0:20:02	0:30:00	0:09:58	Volkswagen	Dmitriy	Volkswagen	Male	59.949837	30.436544	60.014548	30.39164	[ANONYMIZ	[ANON
108	#########	Completed	176e430aa7	c24e3efee4	3ffa4a71a5	stantyan	#########	#########	0:51:03	0:57:00	0:05:57	Hyundai Sol	Dmitriy	Hyundai	Male	60.016196	30.409362	59.799367	30.274014	[ANONYMIZ	[ANON
109	#########	Completed	06dd318a85	580a78c6e9	3ffa4a71a5	stantyan	20-10-2015	20-10-2015	0:38:03	0:47:00	0:08:57	Hyundai Sor	Sergey	Hyundai	Male	59.798797	30.273622	60.016193	30.409293	[ANONYMIZ	[ANON
110	#########	Completed	22f1e9c384	6410050a39	3ffa4a71a5	stantyan	20-10-2015	20-10-2015	1:25:19	1:43:00	0:17:41	Audi Q3	Andrey	Audi	Male	60.015753	30.408902	59.799858	30.27411	[ANONYMIZ	[ANON
111	#########	Completed	9838c1db78	3c07b4aa63	3ffa4a71a5	stantyan	25-10-2015	25-10-2015	0:38:12	0:46:00	0:07:48	Kia Rio	Andrey	Kia	Male	59.802778	30.32294	60.016218	30.409376	[ANONYMIZ	[ANON

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
121	#########	Completed	736ad0b253	8c75b2fbca	3ffa4a71a5	stantyan	#########	#########	0:34:42	0:41:00	0:06:18	Hyundai Sol	Evgeniy	Hyundai	Male	59.986632	30.35402	60.016186	30.409229	[ANONYMIZ	[ANON
122	#########	Completed	2be85cdd9e	093b9e29a9	3ffa4a71a5	stantyan	#########	#########	0:10:10	0:20:00	0:09:50	Hyundai Sol	Maksim	Hyundai	Male	60.011793	30.378658	60.015873	30.409227	[ANONYMIZ	[ANON
123	#########	Completed	6ea41ffb88	8e78bc6f87	3ffa4a71a5	stantyan	26-12-2015	26-12-2015	0:00:09	0:13:00	0:12:51	Ford Kuga	Evgeniy	Ford	Male	60.016113	30.409503	60.016113	30.409503	[ANONYMIZ	[ANON
124	#########	Cancelled	7fc047ee4a	164cdace27	3ffa4a71a5	stantyan	26-12-2015	26-12-2015	0:01:00	0:22:00	0:21:00	Lifan Solanc	Ilya	Lifan	Male	59.932816	30.348415	59.932816	30.348415	[ANONYMIZ	[ANON
125	#########	Completed	797457d1a	4b3883a81c	3ffa4a71a5	stantyan	29-12-2015	29-12-2015	0:25:31	0:32:00	0:06:29	Volkswagen	Murad	Volkswagen	Male	56.750887	60.800028	56.830102	60.56737	[ANONYMIZ	[ANON
126	#########	Completed	27199df0fb	1f57db561a	3ffa4a71a5	stantyan	29-12-2015	29-12-2015	0:16:30	0:26:00	0:09:30	Hyundai Sol	Aleksey	Hyundai	Male	56.795715	60.612906	56.830132	60.567294	[ANONYMIZ	[ANON
127	#########	Completed	f7a7e398ba	8de42f01ee	3ffa4a71a5	stantyan	30-12-2015	30-12-2015	0:11:31	0:27:00	0:15:29	Ford Focus	Dmitriy	Ford	Male	56.85777	60.606151	56.830217	60.567692	[ANONYMIZ	[ANON
128	#########	Completed	e5a9803b45	cc78656ac2	3ffa4a71a5	stantyan	#########	#########	0:13:15	0:20:00	0:06:45	Chevrolet La	Vladimir	Chevrolet	Male	56.830087	60.567557	56.807337	60.610955	[ANONYMIZ	[ANON
129	#########	Completed	4aecc5df22	23351ce1b8	3ffa4a71a5	stantyan	#########	#########	0:38:34	0:47:00	0:08:26	Volkswagen	Igor	Volkswagen	Male	59.799157	30.273731	60.016071	30.409215	[ANONYMIZ	[ANON
130	#########	Completed	fd82a418a4	bbd80a462c	3ffa4a71a5	stantyan	16-01-2016	16-01-2016	0:18:38	0:32:00	0:13:22	Lifan Solanc	Evgeniy	Lifan	Male	59.98653	30.354448	60.016223	30.409012	[ANONYMIZ	[ANON
131	#########	Completed	4666623a85	6e9a080f2b	3ffa4a71a5	stantyan	18-01-2016	18-01-2016	0:08:10	0:19:00	0:10:50	Ford Focus	Svyatoslav	Ford	Male	59.936137	30.31502	59.931411	30.30366	[ANONYMIZ	[ANON
132	#########	Completed	9c8a553a7e	544477de1b	3ffa4a71a5	stantyan	18-01-2016	18-01-2016	0:06:51	0:12:00	0:05:09	Volkswagen	Ramaz	Volkswagen	Male	60.013349	30.396595	60.016004	30.409274	[ANONYMIZ	[ANON
133	#########	Completed	ba1f368be6	50ac5474f3	3ffa4a71a5	stantyan	27-01-2016	27-01-2016	0:31:32	0:50:00	0:18:28	Hyundai ix3	Anton	Hyundai	Male	60.014295	30.412211	59.938885	30.393859	[ANONYMIZ	[ANON
134	#########	Completed	210315ef68	18fa9d0dbb	3ffa4a71a5	stantyan	22-02-2016	22-02-2016	0:30:06	0:37:00	0:06:54	Ford Focus	Aleksey	Ford	Male	59.989658	30.25755	60.016073	30.409248	[ANONYMIZ	[ANON
135	#########	Completed	f09f20ee43	15a6894da4	3ffa4a71a5	stantyan	25-02-2016	25-02-2016	0:05:14	0:10:00	0:04:46	Volkswagen	Nikolay	Volkswagen	Male	59.915843	30.282688	59.910147	30.275921	[ANONYMIZ	[ANON
136	#########	Completed	7dedc1f838	a7d96f1385	3ffa4a71a5	stantyan	29-02-2016	29-02-2016	0:26:25	0:33:00	0:06:35	Chevrolet C	Vadim	Chevrolet	Male	60.016013	30.409379	59.928975	30.356312	[ANONYMIZ	[ANON
137	#########	Completed	19564cbd09	524f217db5	3ffa4a71a5	stantyan	#########	#########	0:18:01	0:21:00	0:02:59	Skoda Octa	Aleksey	Skoda	Male	60.051813	30.33642	60.015927	30.409991	[ANONYMIZ	[ANON
138	#########	Completed	68e2996289	dce6ffc6857	3ffa4a71a5	stantyan	14-03-2016	14-03-2016	0:11:03	0:14:00	0:02:57	Volkswagen	Maksim	Volkswagen	Male	59.943463	30.323775	59.929262	30.356958	[ANONYMIZ	[ANON
139	#########	Completed	2f7ca9c163	af6d53a1a0	3ffa4a71a5	stantyan	17-03-2016	17-03-2016	0:10:50	0:19:00	0:08:10	Volkswagen	Dmitriy	Volkswagen	Male	59.989713	30.462224	60.015927	30.409991	[ANONYMIZ	[ANON
140	#########	Completed	9fa1d8baa5	484892a257	3ffa4a71a5	stantyan	21-03-2016	21-03-2016	0:08:10	0:14:00	0:05:50	Nissan Alme	Nikolay	Nissan	Male	59.944748	30.35941	59.94359	30.32399	[ANONYMIZ	[ANON
141	#########	Completed	5c44c704ce	5d5611a9bc	3ffa4a71a5	stantyan	25-03-2016	25-03-2016	0:19:16	0:29:00	0:09:44	Audi A3	Aleksey	Audi	Male	60.016213	30.409305	60.042637	30.37748	[ANONYMIZ	[ANON
142	#########	Completed	e3ccba6686	d18e2051d1	3ffa4a71a5	stantyan	25-03-2016	25-03-2016	0:14:43	0:24:00	0:09:17	Toyota Cam	Viktor	Toyota	Male	60.042747	30.37656	60.015468	30.410383	[ANONYMIZ	[ANON
143	#########	Cancelled	2cfe7cf24f9	fbaaa4fe33	3ffa4a71a5	stantyan	#########	#########	0:11:14	0:14:00	0:02:46	Lifan Solanc	Igor	Lifan	Male	59.934486	30.348009	59.938403	30.34533	[ANONYMIZ	[ANON
144	#########	Completed	b603f7e2fb	b700e12aef	3ffa4a71a5	stantyan	#########	#########	0:04:40	0:08:00	0:03:20	Hyundai Sol	Ruslan	Hyundai	Male	59.938339	30.347482	59.936145	30.320686	[ANONYMIZ	[ANON
145	#########	Completed	73fd8acb11	164cdace27	3ffa4a71a5	stantyan	#########	#########	0:46:02	0:51:00	0:04:58	Mercedes-B	Viktor	Mercedes-B	Male	60.020078	30.409435	60.103418	29.947507	[ANONYMIZ	[ANON
146	#########	Completed	accfabf376	5d5611a9bc	3ffa4a71a5	stantyan	#########	#########	0:16:04	0:26:00	0:09:56	Audi A3	Aleksey	Audi	Male	60.015703	30.409417	60.047282	30.35391	[ANONYMIZ	[ANON
147	#########	Completed	df2e21420e	e6d00c4da5	3ffa4a71a5	stantyan	#########	#########	0:30:37	0:36:00	0:05:23	Volkswagen	Roman	Volkswagen	Male	59.869218	30.336892	59.891608	30.511607	[ANONYMIZ	[ANON
148	#########	Completed	6c1c93bc79	513f8eb218	3ffa4a71a5	stantyan	#########	#########	0:37:09	0:38:00	0:00:51	Ford Focus	Valeriy	Ford	Male	60.020078	30.409435	59.800195	30.274495	[ANONYMIZ	[ANON
149	#########	Completed	160f29c8e2	ef0ef48fb47	3ffa4a71a5	stantyan	#########	#########	0:12:09	0:20:00	0:07:51	Kia Rio	Margarita	Kia	Female	60.016231	30.409452	60.031687	30.428322	[ANONYMIZ	[ANON
150	#########	Completed	48fb57dd9b	d5d270edbb	3ffa4a71a5	stantyan	17-04-2016	17-04-2016	0:16:18	0:17:00	0:00:42	Volkswagen	Egor	Volkswagen	Male	59.986498	30.354555	60.016138	30.409216	[ANONYMIZ	[ANON
151	#########	Completed	a60a08e90e	47f2730160	3ffa4a71a5	stantyan	19-04-2016	19-04-2016	0:17:07	0:24:00	0:06:53	Skoda Octa	Viktor	Skoda	Male	60.058318	30.331046	60.016136	30.409313	[ANONYMIZ	[ANON

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
241	#########	Completed	706e53114a	1680202001	3ffa4a71a5	stantyan	#########	#########	0:16:54	0:25:00	0:08:06	Hyundai Sol	Mihail	Hyundai	Male	59.959772	30.480846	59.91075	30.444053	[ANONYMIZ	[ANON
242	#########	Completed	28f480d141	126ea68bb0	3ffa4a71a5	stantyan	#########	#########	0:14:52	0:21:00	0:06:08	Toyota Cor	Viktor	Toyota	Male	59.946542	30.475798	59.959772	30.480846	[ANONYMIZ	[ANON
243	#########	Completed	dec533012b	75c7d46a4e	3ffa4a71a5	stantyan	14-10-2016	14-10-2016	0:20:04	0:28:00	0:07:56	Skoda Octa	Yuriy	Skoda	Male	59.941415	30.366456	60.031827	30.428298	[ANONYMIZ	[ANON
244	#########	Completed	8bda2b0083	70513ea55e	3ffa4a71a5	stantyan	15-10-2016	15-10-2016	0:22:25	0:28:00	0:05:35	Kia Cee'd	Aleksey	Kia	Male	59.98648	30.354853	59.941415	30.366456	[ANONYMIZ	[ANON
245	#########	Completed	95358afd69	d86f83f26a	3ffa4a71a5	stantyan	18-10-2016	18-10-2016	0:12:15	0:15:00	0:02:45	Volkswagen	Ruslan	Volkswagen	Male	60.035786	30.419227	60.061936	30.375745	[ANONYMIZ	[ANON
246	#########	Completed	e252856e4	d86f83f26a	3ffa4a71a5	stantyan	18-10-2016	18-10-2016	0:11:39	0:22:00	0:10:21	Volkswagen	Ruslan	Volkswagen	Male	60.067314	30.377042	60.035872	30.41767	[ANONYMIZ	[ANON
247	#########	Completed	f4f55df9b6	59b001b937	3ffa4a71a5	stantyan	19-10-2016	19-10-2016	0:15:45	0:23:00	0:07:15	Skoda Octa	Maksim	Skoda	Male	59.95914	30.477307	60.031627	30.428617	[ANONYMIZ	[ANON
248	#########	Completed	819ac176fd	caf93b6df8	3ffa4a71a5	stantyan	23-10-2016	23-10-2016	0:07:45	0:13:00	0:05:15	Ford Focus	Ruslan	Ford	Male	59.941415	30.366456	59.944795	30.48372	[ANONYMIZ	[ANON
249	#########	Completed	1df46bf101	efd973b4b3	3ffa4a71a5	stantyan	24-10-2016	24-10-2016	0:18:11	0:30:00	0:11:49	Saturn Astra	Dmitriy	Saturn	Male	59.891657	30.511732	59.941415	30.366456	[ANONYMIZ	[ANON
250	#########	Completed	088d605e34	a22df14b79	3ffa4a71a5	stantyan	26-10-2016	26-10-2016	0:16:32	0:24:00	0:07:28	Volkswagen	Vyacheslav	Volkswagen	Male	59.941415	30.366456	60.03165	30.428316	[ANONYMIZ	[ANON
251	#########	Completed	961f743e7c	a18931166a	3ffa4a71a5	stantyan	26-10-2016	26-10-2016	0:35:06	0:42:00	0:06:54	Ford Monde	Kirill	Ford	Male	60.031797	30.427917	59.941415	30.366456	[ANONYMIZ	[ANON
252	#########	Completed	855045cc06	736f262f69	3ffa4a71a5	stantyan	27-10-2016	27-10-2016	0:40:59	0:51:00	0:10:01	Hyundai Sol	Valeriy	Hyundai	Male	60.012595	30.399115	59.941415	30.366456	[ANONYMIZ	[ANON
253	#########	Completed	bfb9a1a99c	dd7af04184	3ffa4a71a5	stantyan	28-10-2016	28-10-2016	0:16:46	0:29:00	0:12:14	Renault Dus	Kirill	Renault	Male	59.941415	30.366456	60.026073	30.42244	[ANONYMIZ	[ANON
254	#########	Completed	9936a1b729	8a31e4d753	3ffa4a71a5	stantyan	#########	#########	0:26:52	0:33:00	0:06:08	Ford Monde	Mihail	Ford	Male	59.941415	30.366456	60.031642	30.428125	[ANONYMIZ	[ANON
255	#########	Completed	3b47b0f524	44c00edf5d	3ffa4a71a5	stantyan	#########	#########	1:24:48	1:35:00	0:10:12	Ford Focus	Vadim	Ford	Male	59.982914	30.211445	59.959646	30.480601	[ANONYMIZ	[ANON
256	#########	Completed	db0b341640	c06e7b8189	3ffa4a71a5	stantyan	#########	#########	0:11:04	0:19:00	0:07:56	Lifan Solanc	Aleksandr	Lifan	Male	59.93357	30.436758	59.941415	30.366456	[ANONYMIZ	[ANON
257	#########	Completed	83fe9c5ed1	968aa8f88c	3ffa4a71a5	stantyan	#########	#########	0:21:20	0:39:00	0:17:40	Kia Rio	Vadim	Kia	Male	59.95912	30.477045	60.031602	30.428307	[ANONYMIZ	[ANON
258	#########	Completed	41f664e3d0	9a92e4848c	3ffa4a71a5	stantyan	#########	#########	0:36:11	0:48:00	0:11:49	Toyota Ave	Vladimir	Toyota	Male	59.959766	30.474675	60.031728	30.427998	[ANONYMIZ	[ANON
259	#########	Completed	9a41064b25	dc522dce0c	3ffa4a71a5	stantyan	#########	#########	0:18:43	0:26:00	0:07:17	Mitsubishi L	Dmitriy	Mitsubishi	Male	59.930972	30.432238	59.941415	30.366456	[ANONYMIZ	[ANON
260	#########	Completed	d2d49cd1b6	64af7d80e5	3ffa4a71a5	stantyan	#########	#########	0:35:40	0:48:00	0:12:20	Ford Fiesta	Artem	Ford	Male	59.91212	30.445631	59.941415	30.366456	[ANONYMIZ	[ANON
261	#########	Completed	6b0fea4fab	ef0ef48fb47	3ffa4a71a5	stantyan	18-11-2016	18-11-2016	0:20:31	0:32:00	0:11:29	Kia Rio	Margarita	Kia	Female	59.941415	30.366456	60.031556	30.428777	[ANONYMIZ	[ANON
262	#########	Completed	9a67ecf355	fdb537e31f	3ffa4a71a5	stantyan	22-11-2016	22-11-2016	0:09:07	0:13:00	0:03:53	Renault Flue	Aleksandr	Renault	Male	59.946469	30.475277	59.912907	30.475496	[ANONYMIZ	[ANON
263	#########	Completed	e09859a8ea	3ed895daf4	3ffa4a71a5	stantyan	22-11-2016	22-11-2016	0:18:38	0:20:00	0:01:22	Peugeot 408	Maksim	Peugeot	Male	59.911704	30.44503	59.941415	30.366456	[ANONYMIZ	[ANON
264	#########	Cancelled	b27215fa3f	09912e6d69	3ffa4a71a5	stantyan	25-11-2016	25-11-2016	0:25:32	1:00:00	0:34:28	Hyundai Equ	Sergey	Hyundai	Male	59.941415	30.366456	59.925468	30.488632	[ANONYMIZ	[ANON
265	#########	Completed	c1a5beeb74	57974b628c	3ffa4a71a5	stantyan	25-11-2016	25-11-2016	0:08:58	0:13:00	0:04:02	Nissan Alme	Dmitriy	Nissan	Male	59.925447	30.488825	59.941415	30.366456	[ANONYMIZ	[ANON
266	#########	Completed	d770190f94	3847307233	3ffa4a71a5	stantyan	25-11-2016	25-11-2016	0:05:56	0:09:00	0:03:04	Kia Rio	Boris	Kia	Male	59.941415	30.366456	59.946597	30.475497	[ANONYMIZ	[ANON
267	#########	Completed	4e0127f57b	f699025b78	3ffa4a71a5	stantyan	25-11-2016	25-11-2016	0:09:52	0:16:00	0:06:08	Volkswagen	Sergey	Volkswagen	Male	59.924753	30.489413	59.946842	30.474938	[ANONYMIZ	[ANON
268	#########	Completed	eb59895918	a696bd6e39	3ffa4a71a5	stantyan	25-11-2016	25-11-2016	0:23:13	0:33:00	0:09:47	Ford Focus	Andrey	Ford	Male	59.941415	30.366456	59.925485	30.488833	[ANONYMIZ	[ANON
269	#########	Completed	ac1490d581	7445538d58	3ffa4a71a5	stantyan	25-11-2016	25-11-2016	0:47:09	0:59:00	0:11:51	Renault San	Aleksandr	Renault	Male	59.892768	30.515795	59.941415	30.366456	[ANONYMIZ	[ANON
270	#########	Completed	9a817ac953	9e9551459b	3ffa4a71a5	stantyan	26-11-2016	26-11-2016	0:14:09	0:25:00	0:10:51	Audi A7	Yuriy	Audi	Male	59.941415	30.366456	59.925456	30.488847	[ANONYMIZ	[ANON
271	#########	Completed	42e0ca4d2c	cf506ca03d	3ffa4a71a5	stantyan	26-11-2016	26-11-2016	0:12:05	0:15:00	0:02:55	Mitsubishi L	Mugutdin	Mitsubishi	Male	59.925455	30.488848	59.941415	30.366456	[ANONYMIZ	[ANON

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
301	#########	Completed	2bc2d7c0f3	c89a86192c	3ffa4a71a5	stantyan	29-12-2016	29-12-2016	0:11:19	0:23:00	0:11:41	Hyundai Sol	Vyacheslav	Hyundai	Male	59.941415	30.366456	59.950601	30.499693	[ANONYMIZ	[ANON
302	#########	Completed	8d123ec50a	37e3ee8575	3ffa4a71a5	stantyan	29-12-2016	29-12-2016	0:09:08	0:19:00	0:09:52	Lifan Solanc	Sergey	Lifan	Male	59.951163	30.499077	59.941415	30.366456	[ANONYMIZ	[ANON
303	#########	Completed	59cf3390ca	63d9ad269c	3ffa4a71a5	stantyan	#########	#########	0:38:12	0:42:00	0:03:48	Mercedes-B	Andrey	Mercedes-B	Male	59.941415	30.366456	59.799797	30.274013	[ANONYMIZ	[ANON
304	#########	Completed	37cf2290ca	63d9ad269c	3ffa4a71a5	stantyan	#########	#########	0:38:12	0:42:00	0:03:48	Renault Flue	Vsevolod	Renault	Male	59.941415	30.366456	59.799797	30.274013	[ANONYMIZ	[ANON
305	#########	Completed	2a5766783(	f1c8df3e36	3ffa4a71a5	stantyan	#########	#########	0:11:58	0:21:00	0:09:02	Ford Monde	Yuriy	Ford	Male	59.941415	30.366456	59.95103	30.409437	[ANONYMIZ	[ANON
306	#########	Completed	0e123f4309	e8e0cfb4c9	3ffa4a71a5	stantyan	#########	#########	0:11:51	0:17:00	0:05:09	Ford Focus	Aleksey	Ford	Male	59.947577	30.414213	59.941415	30.366456	[ANONYMIZ	[ANON
307	#########	Completed	7e72c0b510	2081b30f5a	3ffa4a71a5	stantyan	#########	#########	0:16:20	0:18:00	0:01:40	Peugeot 207	Aleksandr	Peugeot	Male	59.941415	30.366456	59.950725	30.500285	[ANONYMIZ	[ANON
308	#########	Completed	baac5a47b9	3bf0c22123	3ffa4a71a5	stantyan	#########	#########	0:06:04	0:14:00	0:07:56	Hyundai Sol	Aleksey	Hyundai	Male	59.949967	30.500365	59.941415	30.366456	[ANONYMIZ	[ANON
309	#########	Completed	0af692d4ed	dab5903329	3ffa4a71a5	stantyan	#########	#########	0:11:09	0:18:00	0:06:51	Renault Kol	Mihail	Renault	Male	59.941415	30.366456	59.94783	30.411762	[ANONYMIZ	[ANON
310	#########	Completed	9929ec769a	dc0cb5bbe5	3ffa4a71a5	stantyan	#########	#########	0:14:16	0:18:00	0:03:44	Volkswagen	Azad	Volkswagen	Male	59.947695	30.413582	59.941415	30.366456	[ANONYMIZ	[ANON
311	#########	Completed	419e92d7b8	cc5ad05422	3ffa4a71a5	stantyan	#########	#########	0:17:56	0:27:00	0:09:04	Lada Granta	Abdula	Lada	Male	59.940385	30.45526	59.941415	30.366456	[ANONYMIZ	[ANON
312	#########	Completed	a2e73d35f0	932492a3a3	3ffa4a71a5	stantyan	13-01-2017	13-01-2017	0:18:26	0:26:00	0:07:34	Hyundai Sol	Dzhanpolad	Hyundai	Male	59.941415	30.366456	60.031686	30.428149	[ANONYMIZ	[ANON
313	#########	Completed	b0fa949f94	c7f5f5f8314	3ffa4a71a5	stantyan	13-01-2017	13-01-2017	0:24:05	0:28:00	0:03:55	Volkswagen	Ruslan	Volkswagen	Male	60.033742	30.420001	59.941415	30.366456	[ANONYMIZ	[ANON
314	#########	Completed	e65d6065e7	90dc4693d8	3ffa4a71a5	stantyan	16-01-2017	16-01-2017	0:38:15	0:41:00	0:02:45	Hyundai Sol	Aleksandr	Hyundai	Male	59.938962	30.350321	59.941415	30.366456	[ANONYMIZ	[ANON
315	#########	Completed	ac5441152b	82a36d7687	3ffa4a71a5	stantyan	19-01-2017	19-01-2017	0:33:12	0:37:00	0:03:48	Renault Me	Dmitriy	Renault	Male	59.799237	30.273759	59.941415	30.366456	[ANONYMIZ	[ANON
316	#########	Completed	9e98eddc67	1d7b33fdd5	3ffa4a71a5	stantyan	25-01-2017	25-01-2017	0:34:54	0:42:00	0:07:06	Kia Rio	Pavel	Kia	Male	59.941415	30.366456	59.957176	30.322328	[ANONYMIZ	[ANON
317	#########	Completed	91059eb567	04ffcd2a2e	3ffa4a71a5	stantyan	25-01-2017	25-01-2017	0:45:09	0:51:00	0:05:51	Ford Focus	Mihail	Ford	Male	59.955558	30.336818	59.959008	30.477597	[ANONYMIZ	[ANON
318	#########	Completed	0d0d6d6b92	ba5e670416	3ffa4a71a5	stantyan	26-01-2017	26-01-2017	0:35:00	0:38:00	0:03:00	Mazda MAZ	Konstantin	Mazda	Male	59.941415	30.366456	59.800062	30.274375	[ANONYMIZ	[ANON
319	#########	Completed	aefc739092	1788ef33eb	3ffa4a71a5	stantyan	#########	#########	0:32:18	0:38:00	0:05:42	Hyundai Sol	Mariya	Hyundai	Female	59.941415	30.366456	59.918052	30.341649	[ANONYMIZ	[ANON
320	#########	Completed	813cd8aeffa	b60725f055	3ffa4a71a5	stantyan	#########	#########	0:34:18	0:37:00	0:02:42	Volkswagen	Mihail	Volkswagen	Male	59.918062	30.341495	59.941415	30.366456	[ANONYMIZ	[ANON
321	#########	Completed	29615b8df1	8107ebb4e3	3ffa4a71a5	stantyan	#########	#########	0:31:21	0:36:00	0:04:39	Nissan Alme	Denis	Nissan	Male	59.893612	30.519012	59.941415	30.366456	[ANONYMIZ	[ANON
322	#########	Completed	f2103acdfe	d5c9f6dbed	3ffa4a71a5	stantyan	#########	#########	0:15:59	0:26:00	0:10:01	Kia Cee'd	Aleksandr	Kia	Male	59.941415	30.366456	59.940451	30.39729	[ANONYMIZ	[ANON
323	#########	Completed	16dc6125ffa	250f251d1d	3ffa4a71a5	stantyan	#########	#########	0:19:00	0:21:00	0:02:00	Kia Sorento	Roman	Kia	Male	59.941224	30.394085	59.941415	30.366456	[ANONYMIZ	[ANON
324	#########	Completed	b45aedc534	7124589e89	3ffa4a71a5	stantyan	14-02-2017	14-02-2017	0:36:58	0:42:00	0:05:02	Ford Fiesta	Igor	Ford	Male	59.799291	30.273972	59.941415	30.366456	[ANONYMIZ	[ANON
325	#########	Completed	d3dffbdf95a	7f30458dd9	3ffa4a71a5	stantyan	#########	#########	0:23:03	0:33:00	0:09:57	Nissan Alme	Viktor	Nissan	Male	59.941415	30.366456	59.916628	30.450753	[ANONYMIZ	[ANON
326	#########	Completed	6e99ddbf1a	e5c54c2c20	3ffa4a71a5	stantyan	#########	#########	0:20:14	0:26:00	0:05:46	Geely Emgra	Narek	Geely	Male	59.916897	30.451212	59.941415	30.366456	[ANONYMIZ	[ANON
327	#########	Completed	f8cdcca580	6bce685bc8	3ffa4a71a5	stantyan	19-03-2017	19-03-2017	0:19:39	0:26:00	0:06:21	Ford Focus	Viktor	Ford	Male	59.941415	30.366456	59.916841	30.450966	[ANONYMIZ	[ANON
328	#########	Completed	5ae3640719	43fb08c568	3ffa4a71a5	stantyan	19-03-2017	19-03-2017	0:14:41	0:20:00	0:05:19	Skoda Fabia	Dzhahon	Skoda	Male	59.916893	30.451014	59.941415	30.366456	[ANONYMIZ	[ANON
329	#########	Completed	a5a7fdcfd9	6c1c94c35a	3ffa4a71a5	stantyan	19-03-2017	19-03-2017	0:29:14	0:38:00	0:08:46	Citroen Berl	Aleksandr	Citroen	Male	59.941415	30.366456	60.060315	30.29012	[ANONYMIZ	[ANON
330	#########	Completed	7807aee5bc	6c1c94c35a	3ffa4a71a5	stantyan	19-03-2017	19-03-2017	0:32:01	0:33:00	0:00:59	Citroen Berl	Aleksandr	Citroen	Male	60.060602	30.290772	59.941415	30.366456	[ANONYMIZ	[ANON
331	#########	Completed	8c9bdf8550	c336a18980	3ffa4a71a5	stantyan	23-03-2017	23-03-2017	0:26:59	0:28:00	0:01:01	Nissan Alme	Aleksey	Nissan	Male	59.950157	30.409832	59.949298	30.40974	[ANONYMIZ	[ANON
332	#########	Completed	4651e3a51	0b573ca0d1	3ffa4a71a5	stantyan	#########	#########	0:14:04	0:22:00	0:07:56	Renault Log	Georgiy	Renault	Male	59.960016	30.478503	59.91748	30.448984	[ANONYMIZ	[ANON

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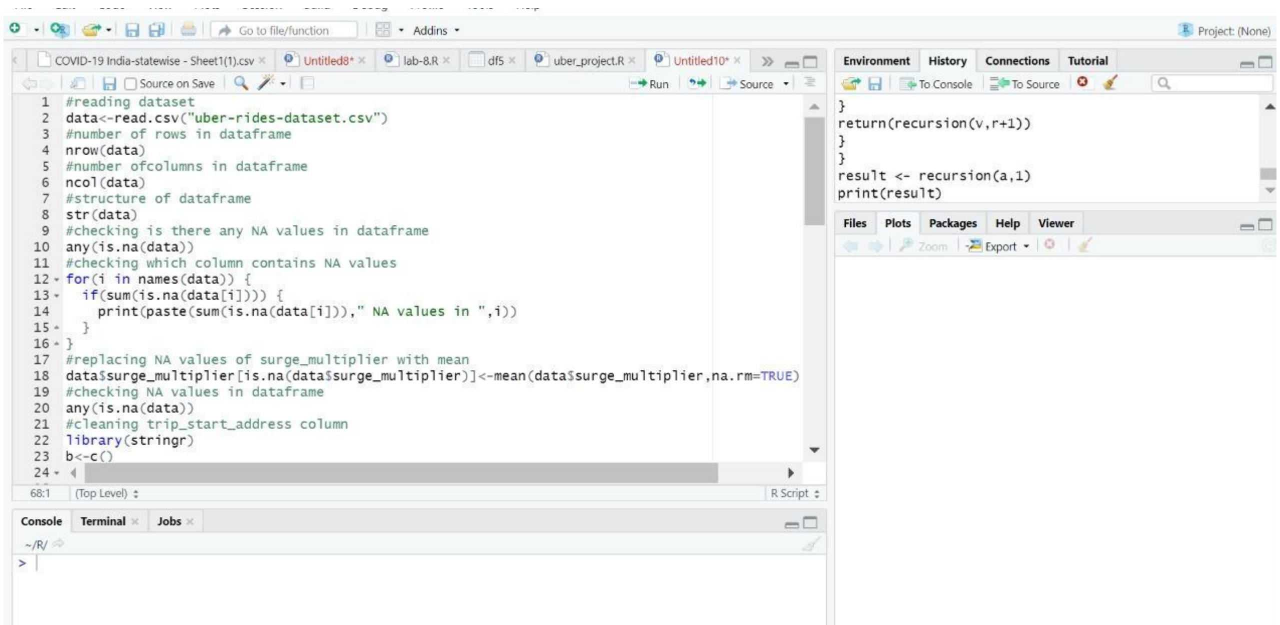
Cleaning the Dataset:

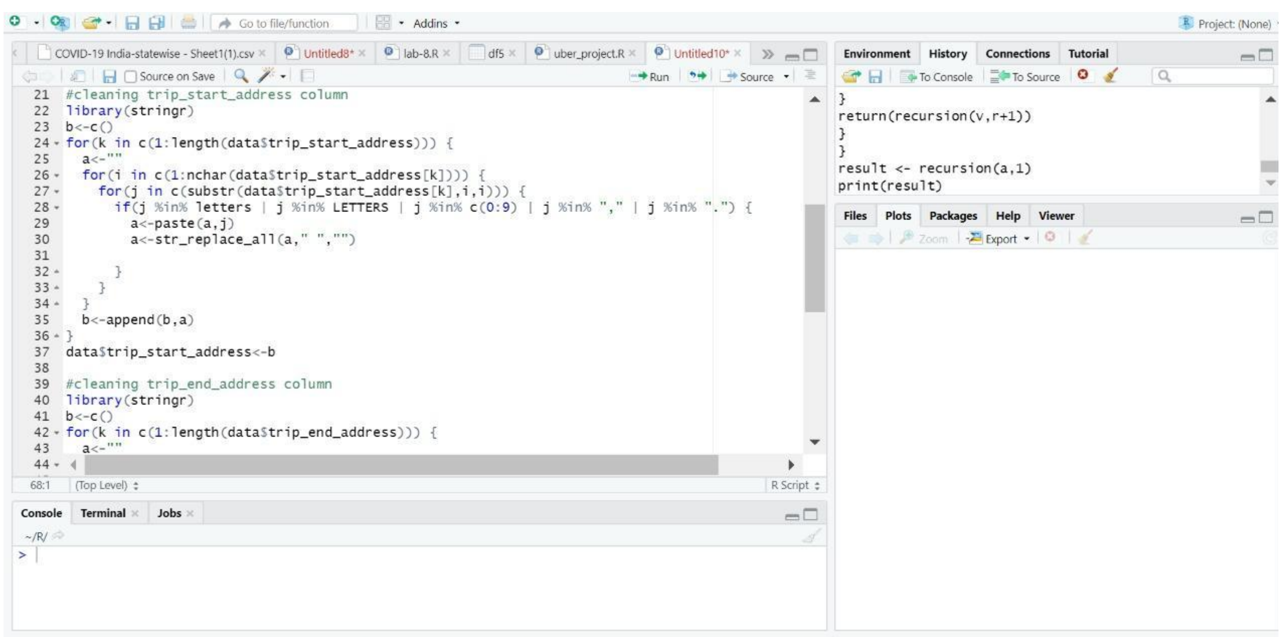
Code:

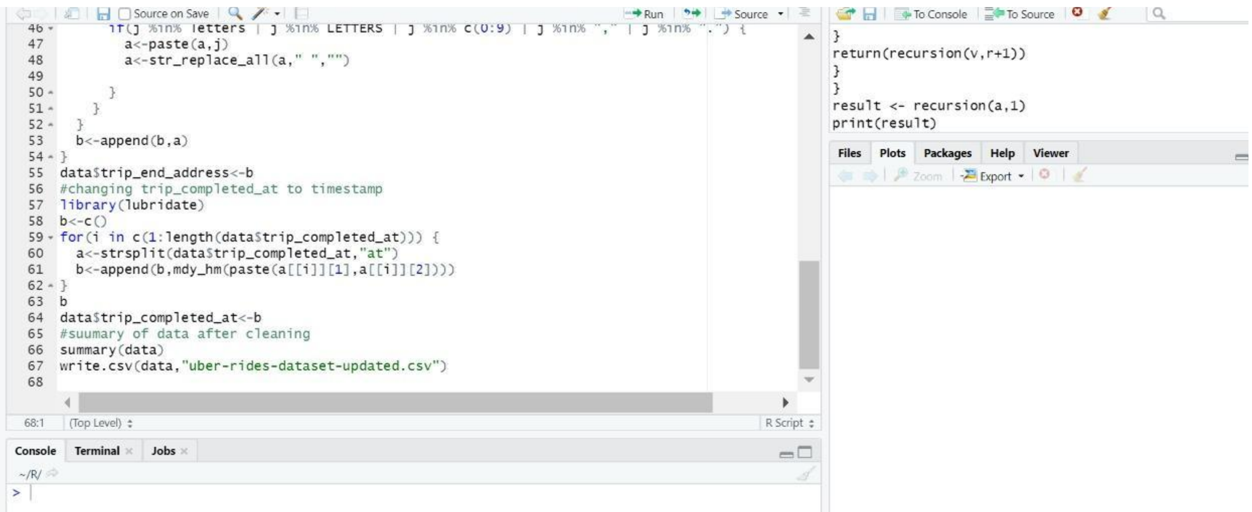
```
#reading dataset
data<-read.csv("uber-rides-dataset.csv")
#number of rows in dataframe
nrow(data)
#number ofcolumns in dataframe
ncol(data)
#structure of dataframe
str(data)
#checking is there any NA values in dataframe
any(is.na(data))
#checking which column contains NA values
for(i in names(data)) {
  if(sum(is.na(data[i]))) {
    print(paste(sum(is.na(data[i]))," NA values in ",i))
  }
}
#replacing NA values of surge_multiplier with mean
data$surge_multiplier[is.na(data$surge_multiplier)]<-mean(data$surge
_multiplier,na.rm=TRUE)
#checking NA values in dataframe
any(is.na(data))
#cleaning trip_start_address column
library(stringr)
```

```
b<-c()
for(k in c(1:length(data$trip_start_address))) {
  a<-""
for(i in c(1:nchar(data$trip_start_address[k]))) {
  for(j in c(substr(data$trip_start_address[k],i,i))) {
    if(j %in% letters | j %in% LETTERS | j %in% c(0:9) | j %in% "," | j
%in% ".") {
      a<-paste(a,j)
      a<-str_replace_all(a," ","")

      }
    }
}
  b<-append(b,a)
}
data$trip_start_address<-b

#cleaning trip_end_address column
library(stringr)
b<-c()
for(k in c(1:length(data$trip_end_address))) {
  a<-""
  for(i in c(1:nchar(data$trip_end_address[k]))) {
    for(j in c(substr(data$trip_end_address[k],i,i))) {
      if(j %in% letters | j %in% LETTERS | j %in% c(0:9) | j %in% "," | j
%in% ".") {
        a<-paste(a,j)
        a<-str_replace_all(a," ","")

      }
    }
  }
  b<-append(b,a)
}
data$trip_end_address<-b
#changing trip_completed_at to timestamp
library(lubridate)
b<-c()
for(i in c(1:length(data$trip_completed_at))) {
  a<-strsplit(data$trip_completed_at,"at")
  b<-append(b,mdy_hm(paste(a[[i]][1],a[[i]][2])))
}
```

b
data$trip_completed_at<-b
#suumary of data after cleaning
summary(data)
write.csv(data,"uber-rides-dataset-updated.csv")






Source on Save
Run
Source
if(j %in% letters | j %in% LETTERS | j %in% c(0:9) | j %in% "," | j %in% ".") {
a<-paste(a,j)
a<-str_replace_all(a," ","")
}
}
}
b<-append(b,a)
}
data$trip_end_address<-b
#changing trip_completed_at to timestamp
library(lubridate)
b<-c()
for(i in c(1:length(data$trip_completed_at))) {
a<-strsplit(data$trip_completed_at,"at")
b<-append(b,mdy_hm(paste(a[[i]][1],a[[i]][2])))
}
b
data$trip_completed_at<-b
#suumary of data after cleaning
summary(data)
write.csv(data,"uber-rides-dataset-updated.csv")
68:1
(Top Level)
R Script
Console
Terminal
Jobs
~/R/
To Console
To Source
}
return(recursion(v,r+1))
}
}
result <- recursion(a,1)
print(result)
Files
Plots
Packages
Help
Viewer
Zoom
Export

Conclusion:

There were very few clearly erroneous entries in the dataset and a small proportion of suspicious cases or *anomalies* that warrant further internal analysis.All taxi and for-hire-vehicles companies operating in the city, which include Uber, Lyft, and others release their data periodically. An update is published twice a year. The destination data were missing, and an extremely small number of cases had missing trip distance and destination. The imputation method chosen for the latter set was the mean distance and duration of their respective origin-destination pair. The entries with missing destination were left unchanged, although the information from the vast number of complete cases could potentially be used to determine the most probable destination.

The relation between a trip's duration and distance is not entirely linear. Rather, it approximates to a power function because shorter trips, occurring mostly within busy areas of traffic, tend to result in lower average trip speed.Analysis and undoubtedly highlighted the critical importance of a well-defined business problem, which directs all coding efforts to a particular purpose and reveals key details. This business case also attempted to demonstrate the basic use of python in everyday business activities, showing how fun, important, and fun it can behavioural change of customers raising more complaints about taxi services.

Reference:

I. https://data-flair.training/blogs/r-data-science-project-uber-data-analysis/

II. https://www.sciencedirect.com/science/article/abs/pii/S2214367X20302027


Thank You