TABLEAU PROJECT REPORT

LONDON BICYCLE RIDES



DATE 30 July 2024

SUBMITTED TO: RAHUL GURNANI

SUBMITTED BY: Naresh Kumar

PROJECT OVERVIEW

Project Overview Data Source and Collection Data Origin:

Downloaded from Kaggle, collected from a government site.

Dataset Details: 17,414 rows and 10 columns.

Data Preparation and Cleaning Tools Used: Python Process: Data cleaning to ensure accuracy and consistency.

Data Analysis and Visualization Platform: Tableau Focus Areas: Temperature (t1 - actual, t2 - feels like)Bike ridership count (cnt)Weather conditions (weather_code)Wind speed (wind_speed)Temporal factors (holidays, weekends, seasons)

Dashboard Insights Objective: Analyze bike ridership patterns across London.

Key Visualization: Number of riders during specific time periods and weather conditions.

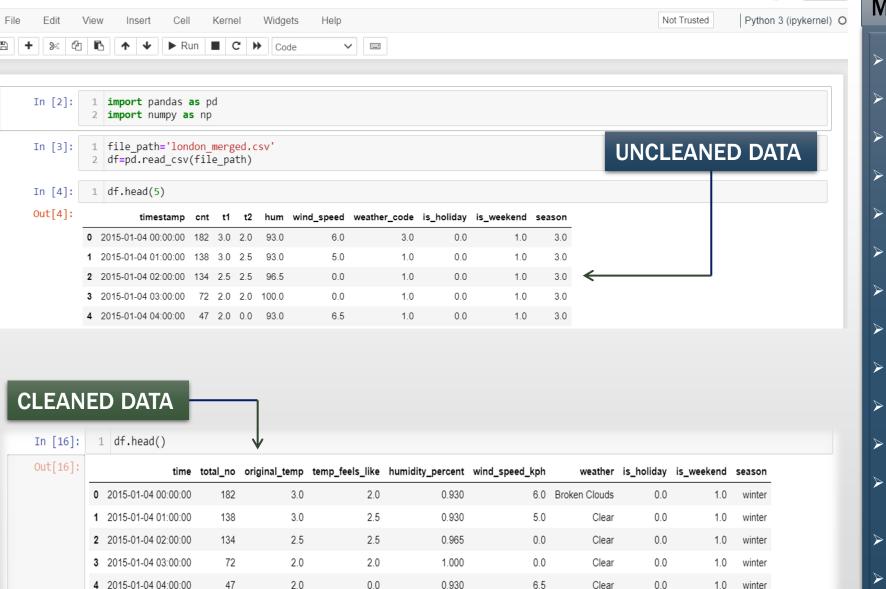


tableau project1 Last Checkpoint: Last Friday at 10:57 PM (autosaved)

1 df.to excel('London bikes data.xlsx', sheet_name='Data')

In []: 1

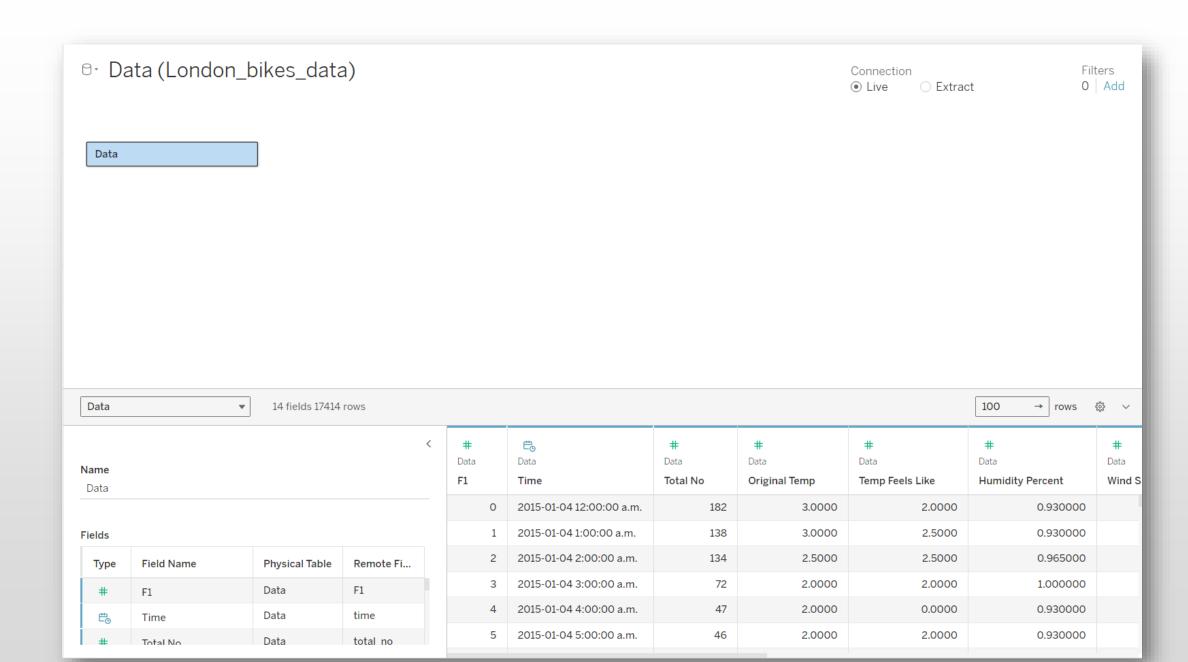
META DATA INFO

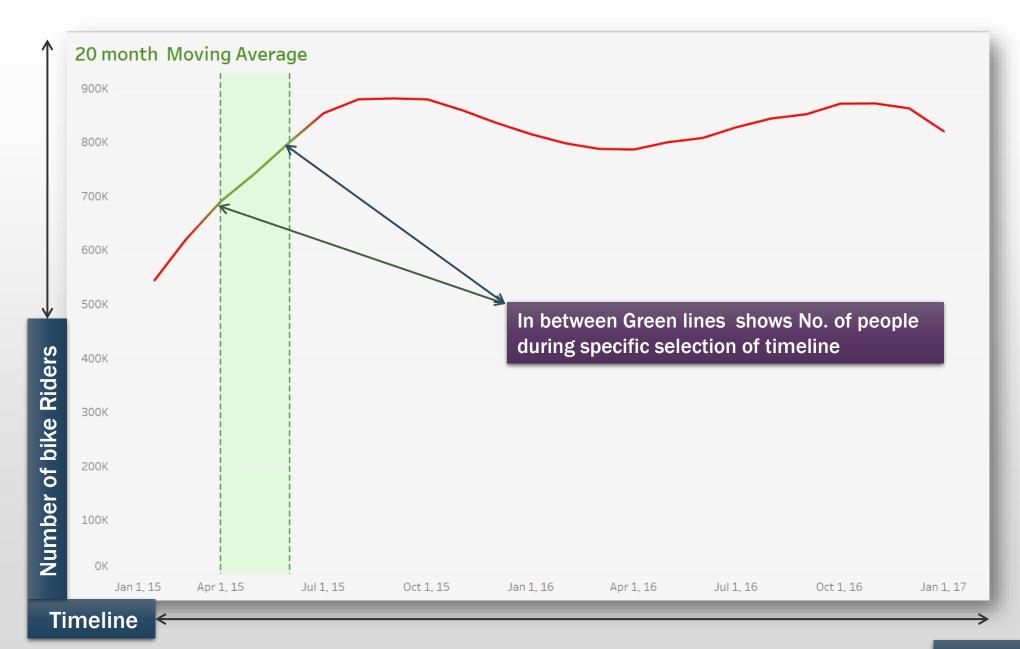
Logout

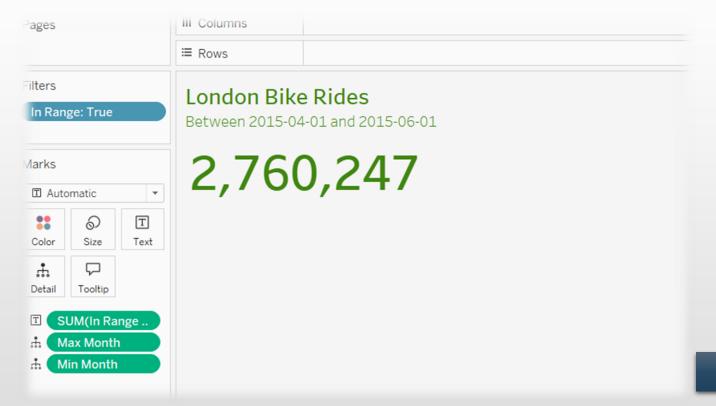
1 df.shape

Out[6]: (17414, 10)

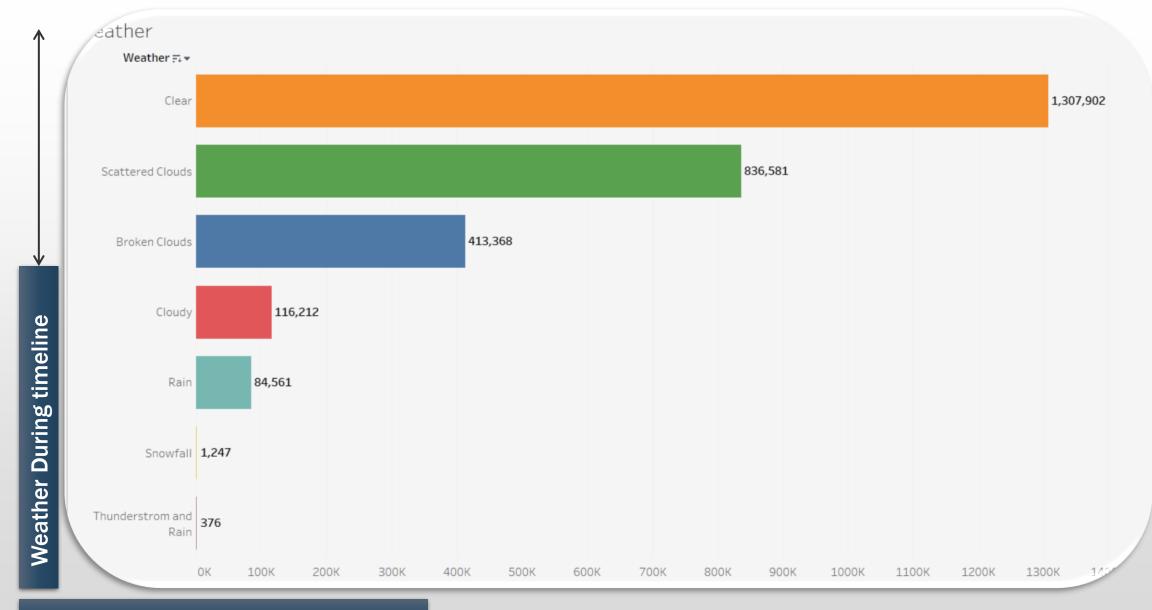
- > "timestamp" timestamp field for grouping the data
- > "cnt" the count of a new bike shares
- > "t1" real temperature in C
- "t2" temperature in C "feels like"
- > "hum" humidity in percentage
- "wind_speed" wind speed in km/h
- "weather_code" category of the weather
- > "is_holiday" boolean field 1 holiday / 0 non holiday
- > "is_weekend" boolean field 1 if the day is weekend
- ➤ "season" category field meteorological seasons: 0spring; 1-summer; 2-fall; 3-winter.
- "weathe_code" category description:
- 1 = Clear; mostly clear but have some values with haze/fog/patches of fog/ fog in vicinity
- ▶ 2 = scattered clouds / few clouds
- ➤ 3 = Broken clouds 4 = Cloudy 7 = Rain/ light Rain shower/ Light rain 10 = rain with thunderstorm 26 = snowfall 94 = Freezing Fog

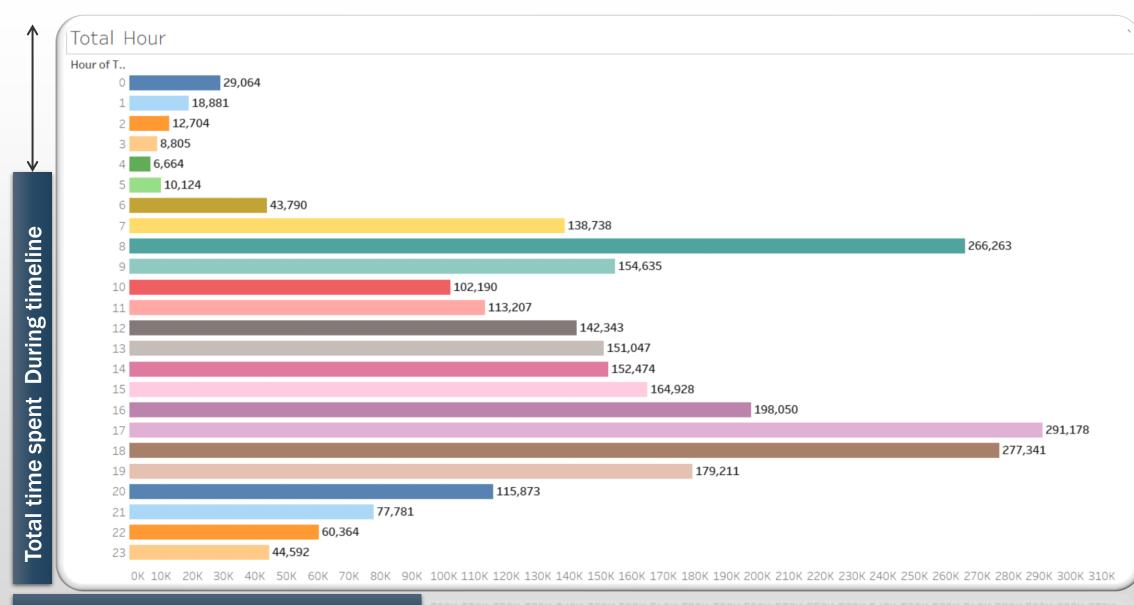






SHEET 2





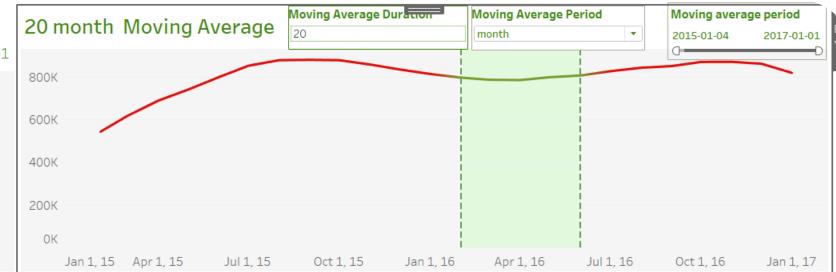
60,364

	Wind Speed Kph																
Temp C	0.0	3.4	6.9	10.3	13.7	17.2	20.6	24.0	27.4	30.9	34.3	37.7	41.2	44.6	48.0	51.5	5
0.0	5,860	13,265	14,625	4,094	2,428	1,727											
2.4	9,625	22,365	41,579	21,134	16,185	23,427	9,563	840	365								
4.9	7,935	31,524	61,025	84,544	99,675	69,279	82,100	35,398	11,448	8,978	4,083	1,734		1,232		65	
7.3	3,044	32,517	75,779	35,669	121,169	119,313	59,658	44,836	32,122	18,201	6,808	2,440	3,958	2,910	1,745	47	5
9.8	10,080	40,578	95,876	73,312	136,918	82,046	93,374	42,872	50,328	33,334	12,053	15,860	3,453	1,296			
12.2	3,301	43,562	78,448	76,971	126,734		49,905	18,937	24,903	18,243	6,655	6,291		1,534			
14.6	6,415	39,376	84,377	116,451	164,353	135,364	66,836	37,361	4,363	1,320	2,861						
17.1	4,672	18,595	60,324	76,219	91,329	98,998	59,202	21,963	5,062			No. of during	people	н			
19.5		10,097	29,360	22,863	37,308	87,618	48,431	14,217				specifi and wi	c temp ind				
22.0		11,455	7,078	21,379	13,204	25,377	11,094	28,748	3,735			speed					

London Bike Rides

Between 2016-02-01 and 2016-06-01

3,954,095



Temprature vs Wind Speed Between 2016-02-01 and 2016-06-01

7,078

13,204

11,094

28,748

3,735

11,455

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THANKYOU