

# Importing Libraries

```
In [1]: import pandas as pd
import numpy as np
```

## Task 1

### 1.0 Loading the data

```
In [2]: data1 = pd.read_excel("Records Matching Task.xlsx", 'data1')
data2 = pd.read_excel("Records Matching Task.xlsx", 'data2')
```

```
In [3]: data1.head()
```

```
Out[3]:
```

	Order ID	Product ID	Qty
0	CA-2014-100006	TEC-PH-10002075	3.0
1	CA-2014-100090	FUR-TA-10003715	3.0
2	CA-2014-100090	OFF-BI-10001597	6.0
3	CA-2014-100293	OFF-PA-10000176	6.0
4	CA-2014-100328	OFF-BI-10000343	1.0

```
In [4]: data2.head()
```

```
Out[4]:
```

	Order ID	Product ID	Qty
0	CA-2014-100090	FUR-TA-10003715	3.0
1	CA-2014-100090	OFF-BI-10001597	6.0
2	CA-2014-100293	OFF-PA-10000176	6.0
3	CA-2014-100328	OFF-BI-10000343	1.0
4	CA-2014-100363	OFF-FA-10000611	2.0

### 1.1 Answer No. 1(LEFT JOIN)

**To identify the Records (Order ID + Product ID combination) present in data1 but missing in data2**

To solve the above question we need to do left join

507 number of rows are present in data1 but not in data2.The resulting dataframe obtained is stored in data\_left

```
In [5]: data_left = data1.merge(data2, on=['Order ID', 'Product ID'], how='left', indicator=True)
data_left = data_left[data_left['_merge'] == 'left_only']

data_left = data_left.drop(columns=['Qty_y', '_merge'])
data_left.to_excel("ans1.xlsx", index=False)
```

```
data_left = pd.read_excel("ans1.xlsx")
data_left.head()
```

```
Out[5]:
```

	Order ID	Product ID	Qty_x
0	CA-2014-100006	TEC-PH-10002075	3
1	CA-2014-100678	OFF-EN-10000056	3
2	CA-2014-100895	OFF-AR-10004511	2
3	CA-2014-101560	OFF-BI-10000309	3
4	CA-2014-102673	OFF-LA-10001771	12

```
In [6]: data_left.shape
```

```
Out[6]: (507, 3)
```

## 1.2 Answer No. 2(Right Join)

**To identify the Records (Order ID + Product ID combination) missing in data1 but present in data2**

To solve the above question we need to do right join

508 number of rows are present in data2 but not in data1. The resulting dataframe obtained is stored in data\_right

```
In [7]: data_right = data1.merge(data2, on=['Order ID', 'Product ID'], how='right', indicator=True)
data_right = data_right[data_right['_merge'] == 'right_only']

data_right = data_right.drop(columns=['Qty_x', '_merge'])

data_right.to_excel("ans2.xlsx", index=False)
data_right = pd.read_excel("ans2.xlsx")
data_right.head()
```

```
Out[7]:
```

	Order ID	Product ID	Qty_y
0	CA-2014-100706	TEC-AC-10001314	2
1	CA-2014-100762	OFF-PA-10001815	3
2	CA-2014-101427	OFF-AR-10002257	3
3	CA-2014-102652	FUR-FU-10001918	7
4	CA-2014-102869	OFF-PA-10000788	3

```
In [8]: data_right.shape
```

```
Out[8]: (508, 3)
```

## 1.3 Answer No.3

**Sum of the total Qty of Records missing in data1 but present in data2**

Total quantity of records missing in data1 but present in data2 is 1874

```
In [9]: data_left.head()
```

```
Out[9]:
```

	Order ID	Product ID	Qty_x
0	CA-2014-100006	TEC-PH-10002075	3
1	CA-2014-100678	OFF-EN-10000056	3
2	CA-2014-100895	OFF-AR-10004511	2
3	CA-2014-101560	OFF-BI-10000309	3
4	CA-2014-102673	OFF-LA-10001771	12

```
In [10]: np.sum(data_left['Qty_x'].tolist())
```

```
Out[10]: 1874
```

## 1.4 Answer No. 4 (Inner Join)

**Total number of unique records (Order ID + Product ID combination) present in the combined dataset of data1 and data2**

We need to do inner join for this and data obtained is stored in data\_intersection Total number of unique records = number of rows in data\_intersection is 8971

```
In [11]: data_intersection = data1.merge(data2, on=['Order ID', 'Product ID'], how='inner', indicator=True)
data_intersection = data_intersection[data_intersection['_merge'] == 'both']

data_intersection = data_intersection.drop(columns=['_merge'])
data_intersection.to_excel("ans2.xlsx", index=False)
data_intersection = pd.read_excel("ans2.xlsx")
data_intersection.head()
```

```
Out[11]:
```

	Order ID	Product ID	Qty_x	Qty_y
0	CA-2014-100090	FUR-TA-10003715	3	3
1	CA-2014-100090	OFF-BI-10001597	6	6
2	CA-2014-100293	OFF-PA-10000176	6	6
3	CA-2014-100328	OFF-BI-10000343	1	1
4	CA-2014-100363	OFF-FA-10000611	2	2

```
In [12]: data_intersection.shape
```

```
Out[12]: (8971, 4)
```

## Task 2

### 2.0 Loading the data

```
In [13]:
```

```
data = pd.read_csv("used_bikes.csv")
```

```
In [14]: data.head()
```

```
Out[14]:
```

	bike_name	price	city	kms_driven	owner	age	power	brand
0	TVS Star City Plus Dual Tone 110cc	35000.0	Ahmedabad	17654.0	First Owner	3.0	110.0	TVS
1	Royal Enfield Classic 350cc	119900.0	Delhi	11000.0	First Owner	4.0	350.0	Royal Enfield
2	Triumph Daytona 675R	600000.0	Delhi	110.0	First Owner	8.0	675.0	Triumph
3	TVS Apache RTR 180cc	65000.0	Bangalore	16329.0	First Owner	4.0	180.0	TVS
4	Yamaha FZ S V 2.0 150cc-Ltd. Edition	80000.0	Bangalore	10000.0	First Owner	3.0	150.0	Yamaha

```
In [15]: data.shape
```

```
Out[15]: (149, 8)
```

## 2.1 Answer No.1

**1. Change the datatypes of the column and check the memory usage before and after the change in the data types.**

```
In [16]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 149 entries, 0 to 148
Data columns (total 8 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   bike_name       149 non-null    object
 1   price           149 non-null    float64
 2   city            149 non-null    object
 3   kms_driven      149 non-null    float64
 4   owner           149 non-null    object
 5   age             149 non-null    float64
 6   power           149 non-null    float64
 7   brand           149 non-null    object
dtypes: float64(4), object(4)
memory usage: 9.4+ KB
```

```
In [17]: data['price'] = data['price'].astype(int)
data['age'] = data['age'].astype(int)
data['kms_driven'] = data['kms_driven'].astype(int)
data['power'] = data['power'].astype(int)
```

```
In [18]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 149 entries, 0 to 148
Data columns (total 8 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   bike_name       149 non-null    object
 1   price           149 non-null    int32
 2   city            149 non-null    object
```

```

3   kms_driven    149 non-null    int32
4   owner         149 non-null    object
5   age           149 non-null    int32
6   power         149 non-null    int32
7   brand         149 non-null    object
dtypes: int32(4), object(4)
memory usage: 7.1+ KB

```

## 2.2 Solution

The memory used before type conversion was 9.4KB and after conversion is 7.1KB hence there is a memory reduction of 2.3KB

## 2.2 Answer No. 2

**2. Dump the data into the database index the column after the data is inserted.**

The data is dumped to a database with proper indexing in the following code

In [19]:

```

!pip install sqlalchemy
from sqlalchemy import create_engine

```

```

Requirement already satisfied: sqlalchemy in d:\ml_projects\myenv\lib\site-packages (1.4.3
1)
Requirement already satisfied: greenlet!=0.4.17 in d:\ml_projects\myenv\lib\site-packages
(from sqlalchemy) (1.1.2)

```

In [20]:

```

# create a reference for sql library
engine = create_engine('sqlite://',
                        echo = False)

# attach the data frame to the sql with a name of the table
data.to_sql('Bikes',
            con = engine)

# show the complete data
print(engine.execute("SELECT * FROM Bikes").fetchall())

```

```

[(0, 'TVS Star City Plus Dual Tone 110cc', 35000, 'Ahmedabad', 17654, 'First Owner', 3, 11
0, 'TVS'), (1, 'Royal Enfield Classic 350cc', 119900, 'Delhi', 11000, 'First Owner', 4, 35
0, 'Royal Enfield'), (2, 'Triumph Daytona 675R', 600000, 'Delhi', 110, 'First Owner', 8, 6
75, 'Triumph'), (3, 'TVS Apache RTR 180cc', 65000, 'Bangalore', 16329, 'First Owner', 4, 1
80, 'TVS'), (4, 'Yamaha FZ S V 2.0 150cc-Ltd. Edition', 80000, 'Bangalore', 10000, 'First
Owner', 3, 150, 'Yamaha'), (5, 'Yamaha FZs 150cc', 53499, 'Delhi', 25000, 'First Owner',
6, 150, 'Yamaha'), (6, 'Honda CB Hornet 160R ABS DLX', 85000, 'Delhi', 8200, 'First Owne
r', 3, 160, 'Honda'), (7, 'Hero Splendor Plus Self Alloy 100cc', 45000, 'Delhi', 12645, 'F
irst Owner', 3, 100, 'Hero'), (8, 'Royal Enfield Thunderbird X 350cc', 145000, 'Bangalor
e', 9190, 'First Owner', 3, 350, 'Royal Enfield'), (9, 'Royal Enfield Classic Desert Storm
500cc', 88000, 'Delhi', 19000, 'Second Owner', 7, 500, 'Royal Enfield'), (10, 'Yamaha YZF-
R15 2.0 150cc', 72000, 'Bangalore', 20000, 'First Owner', 7, 150, 'Yamaha'), (11, 'Yamaha
FZ25 250cc', 95000, 'Bangalore', 9665, 'First Owner', 4, 250, 'Yamaha'), (12, 'Bajaj Pulsa
r NS200', 78000, 'Bangalore', 9900, 'First Owner', 4, 200, 'Bajaj'), (13, 'Bajaj Discover
100M', 29499, 'Delhi', 20000, 'First Owner', 8, 100, 'Bajaj'), (14, 'Bajaj Discover 125M',
29900, 'Delhi', 20000, 'First Owner', 7, 125, 'Bajaj'), (15, 'Bajaj Pulsar NS200 ABS', 900
00, 'Bangalore', 11574, 'First Owner', 3, 200, 'Bajaj'), (16, 'Bajaj Pulsar RS200 ABS', 12
0000, 'Bangalore', 23000, 'First Owner', 3, 200, 'Bajaj'), (17, 'Suzuki Gixxer SF 150cc',
48000, 'Mumbai', 24725, 'First Owner', 5, 150, 'Suzuki'), (18, 'Benelli 302R 300CC', 24000
0, 'Mumbai', 15025, 'Second Owner', 3, 302, 'Benelli'), (19, 'Bajaj Discover 125M', 29900,
'Delhi', 20000, 'First Owner', 7, 125, 'Bajaj'), (20, 'Bajaj Pulsar RS200 ABS', 120000, 'B
angalore', 23000, 'First Owner', 3, 200, 'Bajaj'), (21, 'Suzuki Gixxer SF 150cc', 48000,
'Mumbai', 24725, 'First Owner', 5, 150, 'Suzuki'), (22, 'Hero Splendor iSmart Plus IBS 110

```

cc', 46500, 'Delhi', 3500, 'First Owner', 2, 110, 'Hero'), (23, 'Royal Enfield Classic Chrome 500cc', 121700, 'Kalyan', 24520, 'First Owner', 5, 500, 'Royal Enfield'), (24, 'Yamaha FZ V 2.0 150cc', 45000, 'Delhi', 23000, 'First Owner', 6, 150, 'Yamaha'), (25, 'Bajaj Pulsar NS200', 78000, 'Bangalore', 9900, 'First Owner', 4, 200, 'Bajaj'), (26, 'Hero Super Splendor 125cc', 20000, 'Ahmedabad', 29305, 'First Owner', 16, 125, 'Hero'), (27, 'Honda CBF Stunner 125cc', 20800, 'Faridabad', 30500, 'Second Owner', 7, 125, 'Honda'), (28, 'Bajaj Pulsar 150cc', 50000, 'Bangalore', 19000, 'First Owner', 8, 150, 'Bajaj'), (29, 'Honda X-Blade 160CC ABS', 81200, 'Mettur', 9100, 'First Owner', 2, 160, 'Honda'), (30, 'Bajaj Pulsar NS200', 88000, 'Hyderabad', 21914, 'First Owner', 3, 200, 'Bajaj'), (31, 'Yamaha YZF-R15 2.0 150cc', 80000, 'Kaithal', 20000, 'Second Owner', 4, 150, 'Yamaha'), (32, 'Bajaj Avenger 220cc', 40900, 'Gurgaon', 15000, 'First Owner', 6, 220, 'Bajaj'), (33, 'KTM RC 390cc', 180000, 'Pune', 17700, 'First Owner', 4, 390, 'KTM'), (34, 'Honda CB Unicorn 150cc', 40000, 'Noida', 30000, 'First Owner', 8, 150, 'Honda'), (35, 'KTM Duke 200cc', 70000, 'Nashik', 100000, 'Second Owner', 8, 200, 'KTM'), (36, 'Royal Enfield Classic 350cc', 98800, 'Kochi', 39000, 'First Owner', 5, 350, 'Royal Enfield'), (37, 'Honda CBR 150R 150cc', 65000, 'Allahabad', 43000, 'First Owner', 6, 150, 'Honda'), (38, 'Royal Enfield Thunderbird X 500cc', 190500, 'Samastipur', 4550, 'First Owner', 2, 500, 'Royal Enfield'), (39, 'KTM RC 200cc ABS', 179000, 'Bangalore', 3400, 'First Owner', 2, 200, 'KTM'), (40, 'Royal Enfield Thunderbird 350cc', 70000, 'Nadiad', 45000, 'First Owner', 8, 350, 'Royal Enfield'), (41, 'Bajaj Avenger 220cc', 45000, 'Hyderabad', 36100, 'First Owner', 6, 220, 'Bajaj'), (42, 'Royal Enfield Bullet Electra 350cc', 78000, 'Lucknow', 8500, 'First Owner', 13, 350, 'Royal Enfield'), (43, 'Bajaj Avenger Street 220 ABS', 110000, 'Bangalore', 2550, 'First Owner', 2, 220, 'Bajaj'), (44, 'Royal Enfield Classic 350cc', 85000, 'Delhi', 18000, 'First Owner', 6, 350, 'Royal Enfield'), (45, 'Bajaj Pulsar NS200', 38000, 'Delhi', 35000, 'First Owner', 9, 200, 'Bajaj'), (46, 'Royal Enfield Thunderbird 350cc', 55346, 'Noida', 38000, 'First Owner', 10, 350, 'Royal Enfield'), (47, 'Mahindra Centuro NXT 110cc', 28000, 'Jaipur', 45000, 'First Owner', 2, 110, 'Mahindra'), (48, 'Hero Hunk 150cc', 37000, 'Mumbai', 10800, 'First Owner', 8, 150, 'Hero'), (49, 'Suzuki Gixxer SF Fi 150cc SP ABS', 97000, 'Delhi', 4400, 'First Owner', 3, 150, 'Suzuki'), (50, 'Yamaha FZ 150cc', 40000, 'Karnal', 357000, 'First Owner', 8, 150, 'Yamaha'), (51, 'Royal Enfield\u200e Bullet 350cc', 90000, 'Delhi', 15300, 'First Owner', 7, 350, 'Royal Enfield'), (52, 'TVS Apache RTR 160cc', 60000, 'Mumbai', 30000, 'First Owner', 5, 160, 'TVS'), (53, 'Honda CB Shine 125cc', 21900, 'Gorakhpur', 30000, 'Second Owner', 7, 125, 'Honda'), (54, 'Bajaj Avenger 220cc', 40000, 'Ahmedabad', 64000, 'First Owner', 7, 220, 'Bajaj'), (55, 'Benelli TNT 600i ABS', 475000, 'Mumbai', 11500, 'Second Owner', 3, 600, 'Benelli'), (56, 'Honda Dream Yuga 110cc', 34500, 'Ahmedabad', 17056, 'First Owner', 5, 110, 'Honda'), (57, 'Yamaha SZ 150cc', 25000, 'Vidisha', 172082, 'First Owner', 9, 150, 'Yamaha'), (58, 'Suzuki Gixxer 150cc', 30200, 'Bangalore', 45000, 'First Owner', 7, 150, 'Suzuki'), (59, 'Bajaj Avenger Cruise 220', 65000, 'Hosur', 35000, 'First Owner', 5, 220, 'Bajaj'), (60, 'Bajaj Pulsar 150cc', 25000, 'Mumbai', 38000, 'First Owner', 9, 150, 'Bajaj'), (61, 'Kawasaki Z900', 935000, 'Bagalkot', 2500, 'First Owner', 2, 900, 'Kawasaki'), (62, 'Royal Enfield Bullet Electra 350cc', 107100, 'Delhi', 15438, 'Second Owner', 3, 350, 'Royal Enfield'), (63, 'Bajaj Pulsar 220cc', 80000, 'Delhi', 6000, 'First Owner', 3, 220, 'Bajaj'), (64, 'Royal Enfield Thunderbird 350cc', 88000, 'Delhi', 19000, 'First Owner', 5, 350, 'Royal Enfield'), (65, 'KTM Duke 200cc', 94700, 'Baripara', 32700, 'First Owner', 4, 200, 'KTM'), (66, 'Hero CD Deluxe 100cc', 12200, 'Agra', 46643, 'First Owner', 14, 100, 'Hero'), (67, 'Royal Enfield Classic 350cc', 106000, 'Delhi', 19000, 'First Owner', 6, 350, 'Royal Enfield'), (68, 'Bajaj Pulsar 220cc', 29500, 'Hyderabad', 40700, 'First Owner', 12, 220, 'Bajaj'), (69, 'Kawasaki Ninja 650cc', 290000, 'Dharwad', 11350, 'First Owner', 7, 650, 'Kawasaki'), (70, 'Royal Enfield Thunderbird 350cc', 110000, 'Delhi', 1600, 'First Owner', 6, 350, 'Royal Enfield'), (71, 'Bajaj Platina 125cc', 27000, 'Vadodra', 44410, 'First Owner', 10, 125, 'Bajaj'), (72, 'Royal Enfield Thunderbird 350cc', 65000, 'Jalandhar', 9800, 'First Owner', 11, 350, 'Royal Enfield'), (73, 'Royal Enfield Thunderbird X 350cc', 150000, 'Bangalore', 15000, 'First Owner', 3, 350, 'Royal Enfield'), (74, 'Hero Karizma ZMR 223cc', 55786, 'Surat', 68000, 'Second Owner', 7, 223, 'Hero'), (75, 'Bajaj Pulsar 180cc', 45000, 'Bangalore', 17757, 'First Owner', 8, 180, 'Bajaj'), (76, 'Yamaha FZ25 ABS 250cc', 146000, 'Chennai', 3900, 'First Owner', 2, 250, 'Yamaha'), (77, 'Royal Enfield Thunderbird 350cc', 115000, 'Bangalore', 23700, 'First Owner', 4, 350, 'Royal Enfield'), (78, 'Bajaj CT 100 100cc', 30000, 'Noida', 8250, 'First Owner', 3, 100, 'Bajaj'), (79, 'Bajaj Pulsar RS200 ABS', 93100, 'Mumbai', 10000, 'First Owner', 5, 200, 'Bajaj'), (80, 'Yamaha YZF-R15 2.0 150cc', 82000, 'Mumbai', 4300, 'Second Owner', 3, 150, 'Yamaha'), (81, 'Royal Enfield Interceptor 650cc', 260000, 'Navi Mumbai', 3800, 'First Owner', 2, 650, 'Royal Enfield'), (82, 'Honda CB Shine 125cc', 38000, 'Bangalore', 33000, 'First Owner', 7, 125, 'Honda'), (83, 'KTM Duke 250cc', 130000, 'Gandhidham', 17500, 'Second Owner', 4, 250, 'KTM'), (84, 'Royal Enfield Himalayan 410cc', 118000, 'Gurgaon', 19000, 'First Owner', 4, 410, 'Royal Enfield'), (85, 'Bajaj Pulsar 135LS', 14700, 'Delhi', 10000, 'First Owner', 11, 135, 'Bajaj'), (86, 'Royal Enfield Thunderbird 350cc', 85000, 'Chennai', 54000,

'First Owner', 6, 350, 'Royal Enfield'), (87, 'Bajaj Pulsar 220F', 40000, 'Mumbai', 27000, 'First Owner', 7, 220, 'Bajaj'), (88, 'Yamaha FZ16 150cc', 50000, 'Bangalore', 19000, 'First Owner', 6, 150, 'Yamaha'), (89, 'Royal Enfield Thunderbird 350cc', 71800, 'Mumbai', 43500, 'First Owner', 7, 350, 'Royal Enfield'), (90, 'Royal Enfield Thunderbird 350cc', 71800, 'Mumbai', 43500, 'First Owner', 7, 350, 'Royal Enfield'), (91, 'Bajaj Pulsar NS200', 75000, 'Bangalore', 11575, 'First Owner', 4, 200, 'Bajaj'), (92, 'Ducati Scrambler 1100 Special', 1350000, 'Mumbai', 190, 'First Owner', 1, 1100, 'Ducati'), (93, 'Triumph Street Triple 765', 790000, 'Mumbai', 19000, 'First Owner', 3, 765, 'Triumph'), (94, 'Bajaj V15 150cc', 47000, 'Bangalore', 8600, 'First Owner', 4, 150, 'Bajaj'), (95, 'Bajaj Pulsar 150cc', 60000, 'Pune', 2000, 'First Owner', 2, 150, 'Bajaj'), (96, 'Suzuki Gixxer Fi 150cc ABS', 96700, 'Vadodara', 5100, 'First Owner', 1, 150, 'Suzuki'), (97, 'Hero Splendor plus 100cc', 31900, 'Delhi', 9000, 'First Owner', 5, 100, 'Hero'), (98, 'Bajaj Pulsar 150cc', 35000, 'Visakhapatnam', 44480, 'First Owner', 13, 150, 'Bajaj'), (99, 'KTM Duke 390cc', 240000, 'Bangalore', 11000, 'First Owner', 3, 390, 'KTM'), (100, 'Honda CBR 250R', 68000, 'Delhi', 16000, 'First Owner', 7, 250, 'Honda'), (101, 'Bajaj Pulsar RS200', 80000, 'Bangalore', 26691, 'First Owner', 5, 200, 'Bajaj'), (102, 'Royal Enfield Classic 350cc', 135000, 'Bangalore', 45000, 'First Owner', 5, 350, 'Royal Enfield'), (103, 'Bajaj Pulsar 150cc', 11100, 'Pune', 12000, 'Third Owner', 12, 150, 'Bajaj'), (104, 'Benelli TNT 600i', 480000, 'Mumbai', 14200, 'First Owner', 4, 600, 'Benelli'), (105, 'Suzuki Gixxer 150cc SP Rear Disc', 65000, 'Thrissur', 41000, 'First Owner', 3, 150, 'Suzuki'), (106, 'Yamaha FZ S V 2.0 150cc', 60000, 'Bangalore', 15000, 'First Owner', 5, 150, 'Yamaha'), (107, 'Honda CBR 150R 150cc', 80000, 'Bangalore', 12314, 'First Owner', 4, 150, 'Honda'), (108, 'Hero Splendor Plus Self Alloy 100cc', 46000, 'Delhi', 11760, 'First Owner', 3, 100, 'Hero'), (109, 'Royal Enfield Classic 500cc', 95000, 'Bangalore', 22000, 'First Owner', 11, 500, 'Royal Enfield'), (110, 'Hyosung GT650R', 400000, 'Delhi', 1800, 'First Owner', 4, 650, 'Hyosung'), (111, 'Bajaj V15 150cc', 55000, 'Bangalore', 4400, 'First Owner', 4, 150, 'Bajaj'), (112, 'Yamaha YZF-R15 S 150cc', 63000, 'Delhi', 16000, 'First Owner', 5, 150, 'Yamaha'), (113, 'Bajaj V15 150cc', 51000, 'Faridabad', 9000, 'First Owner', 4, 150, 'Bajaj'), (114, 'TVS Apache RTR 160 4 V Disc', 69900, 'Delhi', 8700, 'First Owner', 3, 160, 'TVS'), (115, 'Bajaj Pulsar RS200 ABS', 125000, 'Gorakhpur', 1342, 'First Owner', 4, 200, 'Bajaj'), (116, 'Benelli TNT 300', 210000, 'Kolkata', 21000, 'First Owner', 6, 300, 'Benelli'), (117, 'Honda CB ShineSP 125cc', 35900, 'Delhi', 19000, 'First Owner', 5, 125, 'Honda'), (118, 'Honda CBR 250R', 67000, 'Delhi', 13000, 'First Owner', 9, 250, 'Honda'), (119, 'Hero Passion Pro 100cc', 29339, 'Ernakulam', 12771, 'First Owner', 4, 100, 'Hero'), (120, 'Hero Splendor Plus 100cc', 19695, 'Ernakulam', 51576, 'First Owner', 6, 100, 'Hero'), (121, 'Hero Splendor iSmart Plus 100cc', 48672, 'Ernakulam', 608, 'First Owner', 2, 110, 'Hero'), (122, 'Honda CBR 150R 150cc', 40000, 'Mumbai', 13680, 'First Owner', 9, 150, 'Honda'), (123, 'Yamaha YZF R6 600cc', 500000, 'Bangalore', 285, 'First Owner', 5, 600, 'Yamaha'), (124, 'Ducati 1299 Superleggera', 800000, 'Mumbai', 3, 'First Owner', 3, 1299, 'Ducati'), (125, 'Royal Enfield Himalayan 410cc', 110000, 'Bangalore', 24676, 'First Owner', 5, 410, 'Royal Enfield'), (126, 'Royal Enfield Classic 350cc', 92500, 'Delhi', 11000, 'First Owner', 6, 350, 'Royal Enfield'), (127, 'Bajaj Pulsar NS200', 57000, 'Bangalore', 28948, 'First Owner', 5, 200, 'Bajaj'), (128, 'Royal Enfield Electra 350cc', 72500, 'Delhi', 10000, 'First Owner', 10, 350, 'Royal Enfield'), (129, 'KTM Duke 200cc', 68000, 'Delhi', 16000, 'First Owner', 9, 200, 'KTM'), (130, 'TVS Phoenix Disc 125cc', 21500, 'Barasat', 10500, 'First Owner', 5, 125, 'TVS'), (131, 'TVS Apache RTR 160cc', 40000, 'Delhi', 20000, 'First Owner', 6, 160, 'TVS'), (132, 'Royal Enfield Classic 350cc', 91000, 'Delhi', 18000, 'First Owner', 5, 350, 'Royal Enfield'), (133, 'Harley-Davidson Street 750', 300000, 'Ghaziabad', 3500, 'First Owner', 6, 750, 'Harley-Davidson'), (134, 'Suzuki Gixxer SF 150cc', 47000, 'Jaipur', 70000, 'First Owner', 6, 150, 'Suzuki'), (135, 'Suzuki Gixxer 150cc', 53000, 'Bangalore', 18158, 'First Owner', 6, 150, 'Suzuki'), (136, 'Suzuki Gixxer 150cc', 51000, 'Bangalore', 39140, 'First Owner', 5, 150, 'Suzuki'), (137, 'Bajaj Pulsar 220F', 48000, 'Bangalore', 27776, 'First Owner', 8, 220, 'Bajaj'), (138, 'Bajaj Pulsar 220cc', 55000, 'Bangalore', 32734, 'First Owner', 6, 220, 'Bajaj'), (139, 'Royal Enfield Himalayan 410cc Fi ABS', 173300, 'Vadodara', 14000, 'First Owner', 2, 410, 'Royal Enfield'), (140, 'Royal Enfield Bullet Electra 350cc', 77000, 'Delhi', 13000, 'First Owner', 8, 350, 'Royal Enfield'), (141, 'Bajaj Pulsar NS200', 115000, 'Bangalore', 5000, 'First Owner', 2, 200, 'Bajaj'), (142, 'Bajaj Discover 150cc', 36000, 'Hyderabad', 39500, 'First Owner', 7, 150, 'Bajaj'), (143, 'Bajaj Avenger Street 220', 72000, 'Hyderabad', 29500, 'First Owner', 4, 220, 'Bajaj'), (144, 'Royal Enfield Standard 350cc', 115000, 'Hyderabad', 14900, 'First Owner', 3, 350, 'Royal Enfield'), (145, 'Honda CB Shine 125cc Disc', 65000, 'Mumbai', 2000, 'First Owner', 3, 125, 'Honda'), (146, 'Honda CB Unicorn ABS 150cc', 99000, 'Mumbai', 4000, 'First Owner', 2, 150, 'Honda'), (147, 'Yamaha YZF-R15 2.0 150cc', 68500, 'Delhi', 68500, 'Second Owner', 7, 150, 'Yamaha'), (148, 'Yamaha YZF-R15 V3 150cc', 140000, 'Delhi', 2473, 'First Owner', 2, 150, 'Yamaha')]

