**Task 1.2 (SQL-Oracle)**

**Stage 1:**

1. Construct and ER-Diagram for the above-mentioned Requirement
2. Construct Tables as per the ER-Diagram.
3. Identify the relationships between tables and use appropriate standards for the same where applicable
4. Insert the appropriate data into the identified tables from the sample dataset provided.

**Diagram

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**Diagram

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**ER diagram and table showing relationship between the given csv files**

**Stage 2:**

**1)Generate Info of the cars which is of the type first owner and the year of car purchase is between 2016-2020 and the number of kms driven is less than 80,000**

**CODE:**

SELECT \* FROM CAR

WHERE OWNER=’FIRST OWNER’ AND

(YEAR BETWEEN 2016 AND 2020) AND

KM\_DRIVEN<80000;

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**2) Generate Info of all the cars whose average mileage is around 25 kmpl and year of car purchase is between 2018-2020 which has minimum seating of 4-5 and fuel type is diesel.**

**CODE:**

SELECT \* FROM CAR

WHERE MILEAGE>=’25 kmpl’ AND

(YEAR BETWEEN 2018 AND 2020) AND

FUEL=’Diesel’ AND

(SEATS=4 OR SEATS=5);

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**3) Generate Info of all the cars which are not sold, and seller-type is individual or dealer and also which has been used for less than 60000 kms and year of car purchase is 2014-2020.**

**CODE:**

SELECT \* FROM CAR A

FULL OUTER JOIN STATUS B

ON A.SALES\_ID=B.SALES\_ID

WHERE B.SOLD=’N’

AND KM\_DRIVEN<=60000

AND (YEAR BETWEEN 2014 AND 2020)

AND SELLER\_TYPE IN (’Individual’ , ’Dealer’);

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**5) Generate Info of all the cars which are manual and automatic whose mileage ranges between 20-25kmpl approximately and also which is within these cities(Washington, New York City,Chicago,Los Angeles)**

**CODE:**

SELECT \* FROM CAR

WHERE TRANSMISSION IN (’Manual’ , ’Automatic’) AND

(MILEAGE BETWEEN ‘20 kmpl’ AND ’25 kmpl’) AND

CITY IN (‘Washington’,’New York City’,’Chicago’,’Los Angeles’)

ORDER BY SALES\_ID;

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**7) Generate Info of all the cars which belong to honda category could be either first owner and second owner and also fuel type is petrol and average mileage should be 25kmpl and which are not sold and and seating arrangement should be minimum 4.**

**CODE:**

SELECT \* FROM CAR A

FULL OUTER JOIN STATUS B

ON A.SALES\_ID=B.SALES\_ID

WHERE B.SOLD=’N’ AND

A.NAME LIKE ‘%Honda%’

AND OWNER IN (’First Owner’ , ’Second Owner’)

AND FUEL=’Petrol’

AND MILEAGE<=’25 kmpl’

AND SEATS>=4;

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**THANK YOU**