My Database name is – “Akki” as per source of dataset and table name is – “Car\_Dekho”.

>>> Create Database Akki;

Then upload it in MySql>>>>

**PROBLEMS WITH SOLUTIONS:**

1. How many Cars are available yearwise?

SELECT year as YEARS, COUNT(NAME) AS TOTAL

FROM CAR\_DEKHO GROUP BY YEAR;

1. A complete count list of all cars between 2015 and 2023.

SELECT COUNT(\*) FROM CAR\_DEKHO WHERE YEAR BETWEEN 2015 AND 2023;

1. How many cars are available in 2020, 2021, 2022?

SELECT YEAR, COUNT(NAME) AS TOTAL

FROM CAR\_DEKHO

WHERE YEAR = 2020 OR YEAR = 2021 OR YEAR = 2022

GROUP BY year;

1. How many diesel cars available in 2020?

SELECT YEAR, COUNT(FUEL) AS DIESEL\_CARDS FROM CAR\_DEKHO

WHERE FUEL = 'DIESEL' AND YEAR = 2020 GROUP BY year;

1. In which Years having more than 100 cars?

SELECT YEAR, COUNT(\*) AS TOTAL FROM CAR\_DEKHO

GROUP BY YEAR HAVING TOTAL > 100;

1. Total No.s of all category cars yearwise.

SELECT year as YEARS,

SUM(CASE WHEN FUEL = 'PETROL' THEN 1 ELSE 0 END) AS PETROL,

SUM(CASE WHEN FUEL = 'DIESEL' THEN 1 ELSE 0 END) AS DIESEL,

SUM(CASE WHEN FUEL = 'ELECTRIC' THEN 1 ELSE 0 END) AS ELECTRIC,

SUM(CASE WHEN FUEL = 'CNG' THEN 1 ELSE 0 END) AS CNG,

SUM(CASE WHEN FUEL = ‘LPG’ THEN 1 ELSE 0 END) AS LPG

FROM CAR\_DEKHO GROUP BY YEAR;

1. Yearwise and fuel categorywise report with Yearwise total.

SELECT

YEAR AS YEARS,

SUM(CASE WHEN FUEL = 'PETROL' THEN 1 ELSE 0 END) AS PETROL,

SUM(CASE WHEN FUEL = 'DIESEL' THEN 1 ELSE 0 END) AS DIESEL,

SUM(CASE WHEN FUEL = 'ELECTRIC' THEN 1 ELSE 0 END) AS ELECTRIC,

SUM(CASE WHEN FUEL = 'CNG' THEN 1 ELSE 0 END) AS CNG,

SUM(CASE WHEN FUEL = 'LPG' THEN 1 ELSE 0 END) AS LPG,

SUM(CASE WHEN FUEL IN ('PETROL','DIESEL','ELECTRIC','CNG','LPG')

THEN 1 ELSE 0 END) AS TOTAL\_YEARWISE

FROM CAR\_DEKHO GROUP BY YEAR;

1. Total Yearwise selling price.

SELECT YEAR AS YEARS, sum(selling\_price) as TOTAL

FROM CAR\_DEKHO GROUP BY YEAR;

1. Total Selling\_Price yearwise and fuel category wise.

SELECT YEAR AS YEARS,

SUM(CASE WHEN FUEL = 'DIESEL' THEN SELLING\_PRICE ELSE 0 END) AS DIESEL,

SUM(CASE WHEN FUEL = 'PETROL' THEN SELLING\_PRICE ELSE 0 END) AS PETROL,

SUM(CASE WHEN FUEL = 'ELECTRIC' THEN SELLING\_PRICE ELSE 0 END) AS ELECTRIC,

SUM(CASE WHEN FUEL = 'LPG' THEN SELLING\_PRICE ELSE 0 END) AS LPG,

SUM(CASE WHEN FUEL = 'CNG' THEN SELLING\_PRICE ELSE 0 END) AS CNG,

SUM(CASE WHEN FUEL IN ('DIESEL','PETROL','ELECTRIC','LPG','CNG') THEN SELLING\_PRICE ELSE 0 END)

AS TOTAL FROM CAR\_DEKHO GROUP BY YEAR;