# PRESENTATION OF FIRST ASSIGNMENT

DONE BY BORIS MENSHIKOV

# **TARGETS:**

- I) clean and import data to the workshop
- 2)Create 3 tables with information
- 3)provide EER Diagram
- 4) 7 unique tasks associated with tables

# INTRODUCTION

First of all I created a
 database called "Imperor"
 then I imported the cvs File
 with all the information and
 created a table "main".



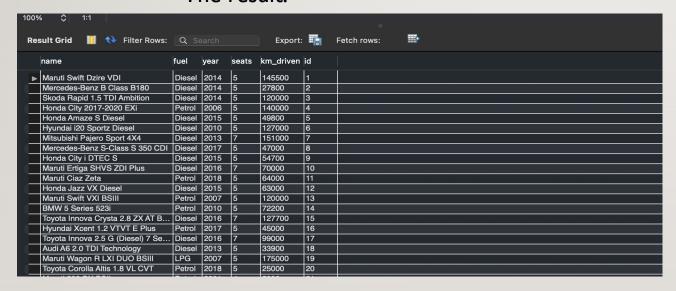
# IMPORTING DATA

- To make the process of importing datd easier I created the column Id in the main Table.
- Then I started creating tables.

ALTER TABLE main
ADD COLUMN id INT PRIMARY KEY AUTO\_INCREMENT;

## FIRST TABLE

#### The result:



The code I used to create the table:

```
CREATE TABLE vehicle_information

AS SELECT

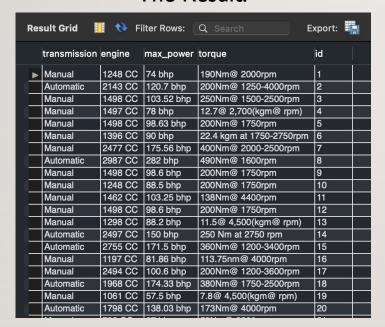
name,
fuel,
year,
seats,
km_driven,
id

FROM main;
```

This table Use for Basic Vehicle Information

## SECOND TABLE

#### The Result:



The code I used to create the table

```
CREATE TABLE vehicle_consumption

AS SELECT

transmission,

engine,

max_power,

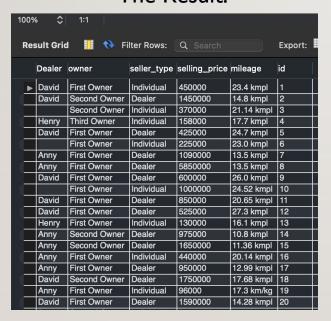
torque,

id

FROM main;
```

# THIRD TABLE

#### The Result:



#### The code used to create the table

```
CREATE TABLE vehicle_patern

AS SELECT

Dealer,

owner,

seller_type,

selling_price,

mileage,

id

FROM main;
```

```
ALTER TABLE
vehicle_patern
RENAME COLUMN id TO patern_id;
ALTER TABLE
vehicle_patern
MODIFY COLUMN patern_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
ADD COLUMN information_id INT,
ADD FOREIGN KEY (information_id) REFERENCES vehicle_information(information_id) ON DELETE CASCADE;
```

```
ALTER TABLE

vehicle_consumption
rename column id to consumption_id;
ALTER TABLE

vehicle_consumption

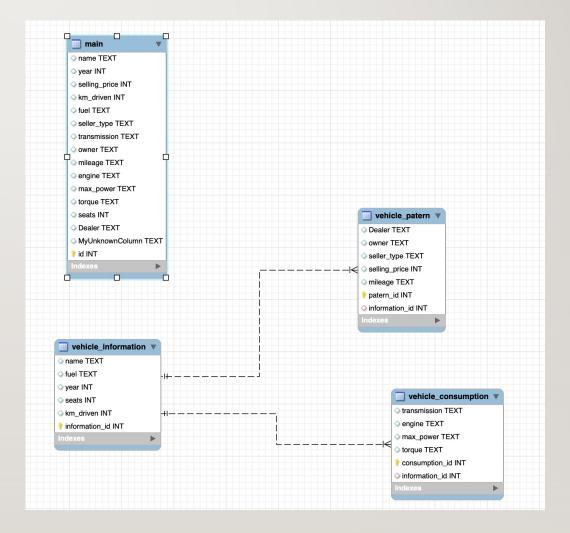
MODIFY COLUMN consumption_id INT PRIMARY KEY AUTO_INCREMENT,
ADD COLUMN
information_id INT,
ADD FOREIGN KEY (information_id) REFERENCES vehicle_information(information_id) ON DELETE CASCADE;
```

```
ALTER TABLE
vehicle_information
RENAME COLUMN id TO information_id;
ALTER TABLE
vehicle_information
MODIFY COLUMN information_id INT PRIMARY KEY AUTO_INCREMENT;
```

# THE CONNECTION AMONG TABLES

I CHANGED THE COLUMNS
NAMES AND CONNECT
KEYS OF 3 TABLES

# AFTER CREATING MY TABLES I GOT THIS DIAGRAM



# FIRST EXERSISE

#### code

```
SELECT
    name as "Most Sold Vehicle",
    COUNT(name) AS Number_of_Cars
FROM
    vehicle_information
GROUP BY
    name
ORDER BY
    Number_of_Cars DESC
LIMIT 1;
```

Most Sold Vehicle		Number_of_Cars	
•	Maruti Swift Dzire VDI	162	

# SECOND TASK

#### Code

```
SELECT
   dealer AS 'Dealer Name',
   COUNT(*) AS Total_Sold_Numer_of_Vehicles,
    SUM(selling_price) AS 'Revenue'
FROM
    vehicle_patern
WHERE
    dealer <> ''
GROUP BY
   dealer
ORDER BY
    Total_Sold_Numer_of_Vehicles DESC
LIMIT 1;
```

	Dealer Name	Total_Sold_Numer_of_Vehicl	Revenue
<b>•</b>	Anny	871	1224686970

# THIRD TASK

#### Code

```
SELECT
    name AS 'Vehicle Model',
    AVG(selling_price) AS 'Average Price'
FROM
    vehicle_information cd

JOIN
    vehicle_patern ce
ON
    cd.information_id = ce.patern_id
GROUP BY
    name;
```

Vehicle Model	Average Price
► Maruti Swift Dzire VDI	524648.0926
Mercedes-Benz B Class B180	1450000.0000
Skoda Rapid 1.5 TDI Ambition	540000.0000
Honda City 2017-2020 EXi	165142.8571
Honda Amaze S Diesel	366666.6667
Hyundai i20 Sportz Diesel	225000.0000
Mitsubishi Pajero Sport 4X4	1360000.0000
Mercedes-Benz S-Class S 350 CDI	5962500.0000
Honda City i DTEC S	607000.0000
Maruti Ertiga SHVS ZDI Plus	824066.6667
Maruti Ciaz Zeta	850000.0000
Honda Jazz VX Diesel	525000.0000
Maruti Swift VXI BSIII	150000.0000
BMW 5 Series 523i	975000.0000
Toyota Innova Crysta 2.8 ZX AT B	1751600.0000
Hyundai Xcent 1.2 VTVT E Plus	470000.0000
Toyota Innova 2.5 G (Diesel) 7 Se	807666.6667
Audi A6 2.0 TDI Technology	1750000.0000
Maruti Wagon R LXI DUO BSIII	138166.6667
Toyota Corolla Altis 1.8 VL CVT	1590000.0000

# **FOURTH TASK**

#### Code

```
SELECT
    name AS 'Vehicle Model',
    year AS 'Year of Manufacture'
FROM vehicle_information
WHERE
    year = (SELECT min(year) FROM vehicle_information)
UNION
SELECT
    name AS 'Vehicle Model',
    year AS 'Year of Manufacture'
FROM
    vehicle_information
WHERE year = (SELECT MAX(year) FROM vehicle_information)
LIMIT 2;
```

Manufactu

# FIFTH TASK

#### Code

```
SELECT
   name AS 'Vehicle Model',
   year AS 'Year of Manufacture',
   km_driven AS 'Kilometer Driven',
   selling_price AS 'Selling Price'
FROM
   vehicle_information cd
LEFT JOIN vehicle_patern ce
   ON cd.information_id=ce.patern_id
ORDER BY
   selling_price,
   km_driven
```

	Vehicle Model	Year of Manufactu	Kilometer Driven	Selling Price
•	Maruti 800 AC	1997	80000	29999

# **SIXTH TASK**

#### Code

```
SELECT
    sum(selling_price) AS 'Total Revenue of Individual'
FROM
    vehicle_patern
WHERE
    seller_type = "Individual";
```

#### result

Total Revenue of Individ...

▶ 3373265296

# SEVENTH TASK

#### Code

```
UNION
      dealer as 'Dealer',
                                         ⊝ (SELECT
      name as 'Vehicle Model',
                                               dealer as 'Dealer',
      COUNT(name) Soled_Vehicles
                                               name as 'Vehicle Model',
  FROM vehicle_information cd
                                               COUNT(name) as Soled_Vehicles
  JOIN vehicle_patern ce
                                           FROM vehicle_information cd
      On cd.information_id = ce.patern_id
                                           JOIN vehicle_patern ce
  WHERE dealer = 'Anny'
                                               On cd.information_id = ce.patern_id
                                           WHERE dealer = 'Henry'
  GROUP BY name
                                           GROUP BY name
  ORDER BY Soled_Vehicles desc
                                           ORDER BY Soled_Vehicles desc
  LIMIT 1)
                                           · LIMIT 1)
  UNION
                                           ORDER BY Soled_Vehicles desc;
dealer as 'Dealer',
      name as 'Vehicle Model',
      COUNT(name) as Soled_Vehicles
  FROM vehicle_information cd
  JOIN vehicle_patern ce
      On cd.information_id = ce.patern_id
  WHERE dealer = 'David'
  GROUP BY name
  ORDER BY Soled_Vehicles desc
  LIMIT 1)
```

	Dealer	Vehicle Model	Soled_Vehicles
▶	Anny	BMW X4 M Sport X xDrive20d	47
	David	BMW X4 M Sport X xDrive20d	13
	Henry	Maruti Swift VDI BSIV W ABS	3

