SQL CODE ---CAR LAUNCH ANALYSIS IN UK MARKET

```
CREATE DATABASE PROJECTU2
use PROJECTU2
select * from ftype
select * from trans
select * from models
select * from audi
select * from cclass
select * from hyundai
select * from merc
select * from bmw

------I SKIP THE CCLASS TABLE AS ITS A TYPE OF MODEL NOT ANY PERTICULAR BRAND
---     SO I TAKE 4 BRANDS AUDI,MERC,BMW,HYUNDAI
-----------I MADE SOME ANALYSIS OTHER THAN 4 QUESTIONS OF THE PPT
----SO I FIND THE MOST USED FUEL TYPE FROM ALL THE CAR BRANDS
-----FIND THE MOST PREFFER TRANSMUSSION OF CAR
-----FIND THE INCOME CLASSE OF UK WITH THE HELP OF PRICE OF CARS
----FIND THE CATEGORIES OF THE CARS BASED ON THEIR PRICE

------>>>>>>>>>>>>>>FOR A)

-------->>>>>>>>>>>>>>>>>>>>>>>>INCOME CLASSES IN UK BASED ON THE PRICE OF CAR
WITH CTE AS(
SELECT *,
CASE
       WHEN PRICE < 33000 THEN 'LOWER_INCOME_CLASS'
       WHEN PRICE  BETWEEN 33000 AND 70000 THEN 'MIDDLE_INCOME_CLASS'
       WHEN PRICE > 70000 THEN 'UPPER_INCOME_CLASS'
       END AS INCOME_CLASS
FROM AUDI
)
SELECT INCOME_CLASS,COUNT(INCOME_CLASS) OVER (PARTITION BY INCOME_CLASS) COUNT_ FROM CTE


-------->>>>>>>>>>>FOR B)

---------------->>>>>>>>>>>>>>>>>Categorize the cars on the basis of their price
WITH CTE AS(
SELECT *,
CASE
       WHEN PRICE < 35000 THEN 'LOW_PRICE'
       WHEN PRICE  BETWEEN 35000 AND 80000 THEN 'MEDIUM_PRICE'
       WHEN PRICE > 80000 THEN 'HIGH_PRICE'
       END AS CAR_CATEGORY
FROM MERC
)
SELECT CAR_CATEGORY,COUNT(CAR_CATEGORY) OVER (PARTITION BY CAR_CATEGORY) FROM CTE


create view abcd as
select * from audi union select * from bmw union select * from merc union select * from
hyundai
```

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------FOR B) a]

---------->>>>>>>>change in price across the years

select year,sum(price) sum_price from abcd group by year

--------FOR B) b]

-------->>>>>>>>>>>>change in sales across the year

select year,count(model_ID) count_ from abcd group by year



---------->>>>>>OTHER ANALYSIS

-------->>>>>top model sold in the past

select A.model_ID,M.model_name ,count(A.model_id) count_ from abcd AS A JOIN MODELS AS M
ON A.model_ID=M.model_ID GROUP by A.model_ID,M.model_name ORDER BY count_  DESC



-------->>>>>>>>>>>>>>>>>>>>>>no of cars according to fuel type
--------for hyundai
select count(a.model_id) count_of_cars ,f.fueltype from hyundai a join ftype f
on a.fuel_ID=f.fuel_ID
group by f.fueltype order by count_of_cars desc
----for audi
select count(a.model_id) count_of_cars ,f.fueltype from audi a join ftype f
on a.fuel_ID=f.fuel_ID
group by f.fueltype order by count_of_cars desc
----for bmw
select count(a.model_id) count_of_cars ,f.fueltype from bmw a join ftype f
on a.fuel_ID=f.fuel_ID
group by f.fueltype order by count_of_cars desc
---for merc
select count(a.model_id) count_of_cars ,f.fueltype from merc a join ftype f
on a.fuel_ID=f.fuel_ID
group by f.fueltype order by count_of_cars desc


----->>>>>>>>>>>>>>>>>>>>>>>>>>no of cars according to transmission
-----for hundai
select count(m.model_id) Count_of_Cars ,t.transmission from hyundai m join trans t
on m.transmission_ID=t.ID
group by t.transmission order by Count_of_Cars desc

------for audi
select count(m.model_id) Count_of_Cars ,t.transmission from audi m join trans t
on m.transmission_ID=t.ID
group by t.transmission order by Count_of_Cars desc

----for bmw
select count(m.model_id) Count_of_Cars ,t.transmission from bmw m join trans t
on m.transmission_ID=t.ID
group by t.transmission order by Count_of_Cars desc
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```
------for merc
select count(m.model_id) Count_of_Cars ,t.transmission from bmw m join trans t
on m.transmission_ID=t.ID
group by t.transmission order by Count_of_Cars desc



----------------->>>>>>>>>>>>>>>AVG OF PRICE ,MILEAGE AND ENGINE SIZE AND THE TOTAL NO OF
CARS
----for bmw
select  avg(price) avg_price ,avg(mileage) avg_mileage , avg(enginesize) avg_engine ,
count(model_id) count_of_cars
from bmw
-----for merc
select  avg(price) avg_price ,avg(mileage) avg_mileage , avg(enginesize)
avg_engine,count(model_id) count_of_cars
from merc
----for audi
select  avg(price) avg_price ,avg(mileage) avg_mileage , avg(enginesize)
avg_engine,count(model_id) count_of_cars
from audi
-----for hyundai
select  avg(price) avg_price ,avg(mileage) avg_mileage , avg(enginesize)
avg_engine,count(model_id) count_of_cars
from hyundai



------------>>>>>>>>>>>>>>>>TOTAL SALES OF BRANDS
select count(model_id) from bmw

select count(model_id) from hyundai

select count(model_id) from merc

select count(model_id) from audi
```