1.Each Car brand How many car

Solution Query

SELECT 'audi' AS brand, count(Distinct ID) AS count\_of\_Car FROM audi1

UNION ALL

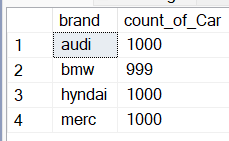
SELECT 'bmw', count(Distinct ID) FROM bmw1

UNION ALL

SELECT 'hyndai', count(Distinct ID) FROM hyndai1

UNION ALL

SELECT 'merc', count(Distinct ID) FROM merc1;



1. Categorize the cars on the basis of their price(Create as many buckets as you want as per your understanding of data) and analyze the:

OR

Brand Wise highest\_price Compare Each other

Solution Query

SELECT

(SELECT MAX(price) FROM audi1) AS audi\_highest\_price,

(SELECT MAX(price) FROM bmw1) AS bmw\_highest\_price,

(SELECT MAX(price) FROM hyndai1) AS hyndai\_highest\_price,

(SELECT MAX(price) FROM merc1) AS merc\_highest\_price;

OR

SELECT 'audi' AS brand, MAX(price) AS highest\_price FROM audi1

UNION ALL

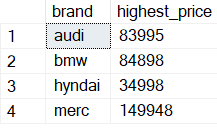
SELECT 'bmw', MAX(price) FROM bmw1

UNION ALL

SELECT 'hyndai', MAX(price) FROM hyndai1

UNION ALL

SELECT 'merc', MAX(price) FROM merc1;



3.Each car brand find no of car use of type of fuel

Solution Query

SELECT

COALESCE(audi.fueltype, bmw.fueltype, hyundai.fueltype, merc.fueltype) AS fueltype,

COALESCE(audi.brand, 'Audi') AS audi\_brand, COALESCE(audi.audi\_Id, 0) AS audi\_Id,

COALESCE(bmw.brand, 'BMW') AS bmw\_brand, COALESCE(bmw.bmw\_Id, 0) AS bmw\_Id,

COALESCE(hyundai.brand, 'Hyundai') AS hyundai\_brand, COALESCE(hyundai.hyundai\_Id, 0) AS hyundai\_Id,

COALESCE(merc.brand, 'Mercedes') AS merc\_brand, COALESCE(merc.merc\_Id, 0) AS merc\_Id

FROM

(SELECT 'Audi' AS brand, COUNT(audi1.ID) AS audi\_Id, fueltype.fueltype

FROM audi1

JOIN fueltype ON audi1.fuel\_ID = fueltype.fuel\_ID

GROUP BY fueltype.fueltype) AS audi

FULL OUTER JOIN

(SELECT 'BMW' AS brand, COUNT(bmw1.ID) AS bmw\_Id, fueltype.fueltype

FROM bmw1

JOIN fueltype ON bmw1.fuel\_ID = fueltype.fuel\_ID

GROUP BY fueltype.fueltype) AS bmw

ON audi.fueltype = bmw.fueltype

FULL OUTER JOIN

(SELECT 'Hyndai' AS brand, COUNT(hyndai1.ID) AS hyundai\_Id, fueltype.fueltype

FROM hyndai1

JOIN fueltype ON hyndai1.fuel\_ID = fueltype.fuel\_ID

GROUP BY fueltype.fueltype) AS hyundai

ON COALESCE(audi.fueltype, bmw.fueltype) = hyundai.fueltype

FULL OUTER JOIN

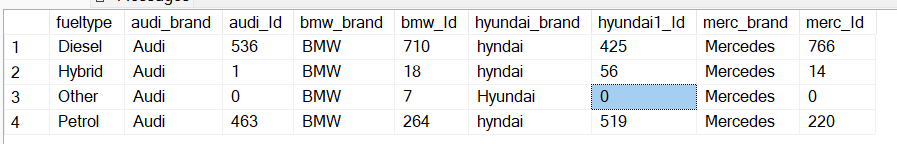
(SELECT 'Mercedes' AS brand, COUNT(merc1.ID) AS merc\_Id, fueltype.fueltype

FROM merc1

JOIN fueltype ON merc1.fuel\_ID = fueltype.fuel\_ID

GROUP BY fueltype.fueltype) AS merc

ON COALESCE(audi.fueltype, bmw.fueltype, hyundai.fueltype) = merc.fueltype;



4.price changes across the years and identifies the categories which have seen a significant jump in their price

OR

Each car brand yearly wise highest price

Solution Query

SELECT 'audi' AS brand, year, max(price) AS year\_wise\_highest\_price FROM audi1

group by year

UNION ALL

SELECT 'bmw', year, max(price) FROM bmw1

group by year

UNION ALL

SELECT 'hyndai', year,max(price) FROM hyndai1

group by year

UNION ALL

SELECT 'merc', year,max(price) FROM merc1

group by year;

Or

SELECT top 5 'audi' AS brand, model\_name,year,max(price) AS year\_wise\_highest\_price FROM audi1 join models

on audi1.model\_ID=models.model\_ID

group by model\_name,year

UNION ALL

SELECT top 5 'bmw',model\_name, year, max(price) FROM bmw1 join models

on bmw1.model\_ID=models.model\_ID

group by model\_name,year

UNION ALL

SELECT top 5 'hyndai',model\_name, year,max(price) FROM hyndai1 join models

on hyndai1.model\_ID = models.model\_ID

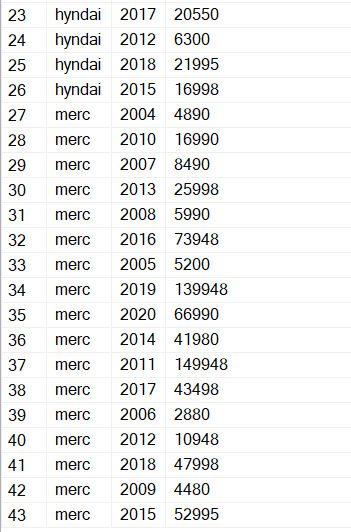
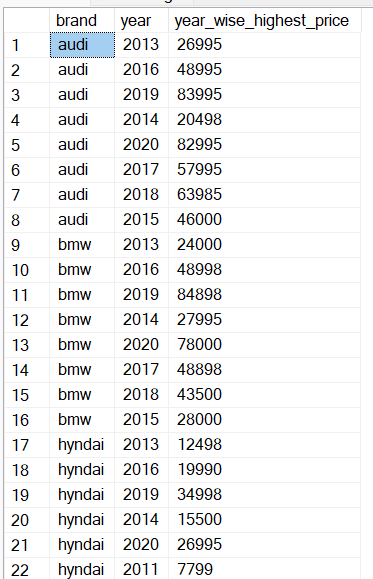
group by model\_name, year

UNION ALL

SELECT top 5 'merc', model\_name,year,max(price) FROM merc1 join models

on merc1.model\_ID= models.model\_ID

group by model\_name,year;



Or

SELECT top 5 'audi' AS brand, model\_name,year,max(price) AS year\_wise\_highest\_price FROM audi1 join models

on audi1.model\_ID=models.model\_ID

group by model\_name,year

UNION ALL

SELECT top 5 'bmw',model\_name, year, max(price) FROM bmw1 join models

on bmw1.model\_ID=models.model\_ID

group by model\_name,year

UNION ALL

SELECT top 5 'hyndai',model\_name, year,max(price) FROM hyndai1 join models

on hyndai1.model\_ID = models.model\_ID

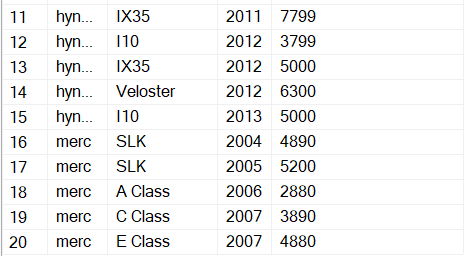
group by model\_name, year

UNION ALL

SELECT top 5 'merc', model\_name,year,max(price) FROM merc1 join models

on merc1.model\_ID= models.model\_ID

group by model\_name,year;



1. Brand wise total revenue

Solution Query

Select 'auidi'As brand,

sum(price) As revenue from audi1

union all

Select 'bmw'As brand,

sum(price) As revenue from bmw1

union all

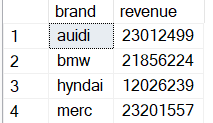
Select 'hyndai'As brand,

sum(price) As revenue from hyndai1

Union all

Select 'merc'As brand,

sum(price) As revenue from merc1



1. Brand and yearly wise total revenue

Solution Query

Select 'auidi'As brand,year,

sum(1\*price) As revenue from audi1

group by year

Union all

Select 'bmw'As brand,year,

sum(1\*price) As revenue from bmw1

group by year

union all

Select 'hyndai'As brand,year,

sum(1\*price) As revenue from hyndai1

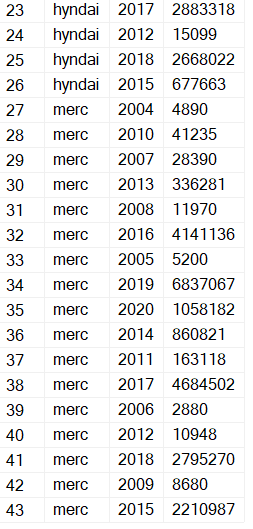
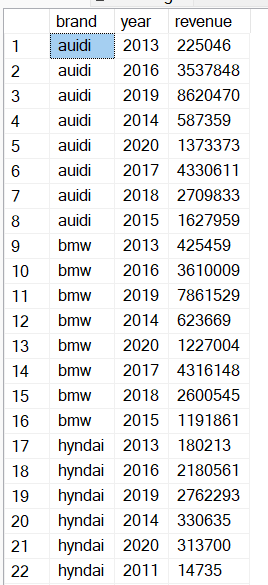
group by year

union all

Select 'merc'As brand,year,

sum(1\*price) As revenue from merc1

group by year



7.Brand according highest mileage with year and ID

Select 'Auidi' as BRAND, ID, year, mileage from audi1 where mileage=

(Select max(mileage) from audi1)

Union all

Select 'BMW' as brand, ID, year, mileage from bmw1 where mileage=

(Select max(mileage)from bmw1)

Union all

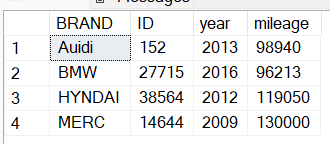
Select 'HYNDAI' as brand, ID, year, mileage from hyndai1 where mileage=

(Select max(mileage)from hyndai1)

Union all

Select 'MERC' as brand, ID, year, mileage from merc1 where mileage=

(Select max(mileage)from merc1)



8.How many car brand type of transmission

Select'auidi' as brand, transmission ,count(audi1.ID) as brand\_count from audi1 join transmission

ON audi1.transmission\_ID= transmission.ID

group by transmission

Union all

Select 'bmw' as brand, transmission ,count(bmw1.ID) as brand\_count from bmw1 join transmission

ON bmw1.transmission\_ID= transmission.ID

group by transmission

Union all

Select 'hyndai' as brand, transmission ,count(hyndai1.ID) as brand\_count from hyndai1 join transmission

ON hyndai1.transmission\_ID= transmission.ID

group by transmission

Union all

Select 'merc' as brand, transmission ,count(merc1.ID) as brand\_count from merc1 join transmission

ON merc1.transmission\_ID= transmission.ID

group by transmission

