**Car project query data**

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create database project;

select \* from audi;

select \* from cclass;

select \* from merc;

select \* from hyndai

select \* from bmw

alter table audi add brand varchar(10) not null default 'Audi'

--audi car data

create view audicar as

select a.\*,b.transmission,c.fueltype,d.model\_name from audi as a left join transmission as b on a.transmission\_ID=b.ID

left join fueltype as c on a.fuel\_ID=c.fuel\_ID

left join models as d on a.model\_ID=d.model\_ID

alter table audi add brand varchar(10) not null default 'Audi'

select \* from audicar

select top 5 \* from audicar order by price desc

select \* from bmwcar

--bmw car data

create view bmwcar as

select a.\*,b.transmission,c.fueltype,d.model\_name from bmw as a left join transmission as b on a.transmission\_ID=b.ID

left join fueltype as c on a.fuel\_ID=c.fuel\_ID

left join models as d on a.model\_ID=d.model\_ID

alter table BMW add brand varchar(10) not null default 'BMW'

select \* from bmwcar where fuel\_ID=5

--cclass car data

create view cclasscar as

select a.\*,b.transmission,c.fueltype,d.model\_name from cclass as a left join transmission as b on a.transmission\_ID=b.ID

left join fueltype as c on a.fuel\_ID=c.fuel\_ID

left join models as d on a.model\_ID=d.model\_ID

alter table cclass add brand varchar(10) not null default 'Cclass'

select \* from cclasscar

select \* from cclass

--hyndai car data

create view hyndaicars as

select a.\*,b.transmission,c.fueltype,d.model\_name from hyndai as a left join transmission as b on a.transmission\_ID=b.ID

left join fueltype as c on a.fuel\_ID=c.fuel\_ID

left join models as d on a.model\_ID=d.model\_ID

select \* from hyndaicars

alter table hyndai add brand varchar(10) not null default 'Hyndai'

--merc car data

create view merccars as

select a.\*,b.transmission,c.fueltype,d.model\_name from merc as a left join transmission as b on a.transmission\_ID=b.ID

left join fueltype as c on a.fuel\_ID=c.fuel\_ID

left join models as d on a.model\_ID=d.model\_ID

select \* from merccars

alter table merc add brand varchar(10) not null default 'merc'

select \* from cars order by price desc;

select \* from cclass

select avg(price)as audi\_avg from cars where brand='audi'

select YEAR,fueltype,brand,sum(price) as cars\_price from cars group by YEAR,brand,fueltype order by YEAR asc;

--a. Create an analysis to find income class of UK citizens based on price of Cars(You can use per-capita income in UK from internet sources);

create view income\_class 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 cars

select \* from income\_class

select brand,count(id)as total\_citizen,income\_class from income\_class group by income\_class, brand

--b. changes in no of cars sold across the years and identify the categories which has seen significant jump in its sales

select brand,count(id) as cars\_sold,YEAR from cars group by YEAR,brand order by YEAR asc

--c. Find relationship between fuel efficiency & price of car/sales of car/fuel type/, etc.

select \* from cars

select max(mpg),count(id) from cars group by mpg order by mpg asc

select mileage,price from cars group by mileage,price order by price desc

--You are also asked to rank across all the models based on their total sales, average price, average mileage, average engine size, etc.

--and now filter the top 5 basis their sales. Observe the identified models and provide your inference.

select \* from bmwcar

select top 5 brand,count(id) total\_sales, avg(price)as avg\_price,avg(mileage)as avg\_mil,avg(engineSize)as avg\_eng\_size from cclasscar group by brand

select distinct brand,fueltype,count(fueltype)total\_type from cars where brand ='HYNDAI' group by brand,fueltype order by brand asc