1) create the table with all constraint

2) Create the table and define the PK FK relationship

3) insert the data in created table.

4) Writhe the SQL query using Where clause and use the all of the operator

5)Write the aggregate query using group by having clause

6)Write the query using dense rank and rank function

7) write the query using all 4 joins

8)write the query using String function

**create** **table** NA\_person (

c\_firstn **varchar**(20),

c\_lastn **varchar**(20),

c\_id **int** **not** **null**,

c\_phone **int**,

**primary** **key**(c\_id)

)

**insert** **into** NA\_person **values**('neha','singh',100,78654399);

**insert** **into** NA\_person **values**('poja','singha',101,78655599);

**insert** **into** NA\_person **values**('neh','thakur',102,786548889);

**insert** **into** NA\_person **values**('akash','singh',103,786777399);

**insert** **into** NA\_person **values**('pinka','singh',104,78651199);

**insert** **into** NA\_person **values**('megha','singh',105,786541239);

**select**\* **from** NA\_person

Table

Description automatically generated

**create** **table** NA\_orders(

o\_id **int** **not** **null**,

o\_address **varchar**(20),

o\_location **varchar**(20),

o\_pin **int**,

o\_quantity **int**,

o\_name **varchar**(20),

**foreign** **key** (o\_id) **references** NA\_person(c\_id)

);

**insert** **into** NA\_orders **values**(100,'hhgffffhd','bangalore',547890,5,'cloth');

**insert** **into** NA\_orders **values**(101,'nbhhhh','delhi',456783,5,'toys');

**insert** **into** NA\_orders **values**(102,'haaaadd','bangalore',137890,2,'earrings');

**insert** **into** NA\_orders **values**(103,'kjyygf',' mumbai',511890,4,'watch');

**insert** **into** NA\_orders **values**(104,'assddffg','bhopal',478901,3,'sandal');

**insert** **into** NA\_orders **values**(105,'gffffhd','varanasi',89000,1,'ring');

**SELECT** \* **from** NA\_orders

Table

Description automatically generated

**select** \* **from** NA\_orders **where** o\_id>=101;

Table

Description automatically generated

**select** \* **from** NA\_orders **where** o\_id<=101;

**select** \* **from** NA\_orders **where** o\_id=101;

**select** \* **from** NA\_orders **where** o\_id!=101;

**select** \* **from** NA\_person **where** c\_id=100 **and** c\_firstn='neha'

**select** \* **from** NA\_person **where** c\_id=102 **or** c\_firstn='neha'

**select** \* **from** NA\_person **where** c\_id **is** **null**;

**select** \* **from** NA\_person **where** c\_id **is** **not** **null**;

**select** \* **from** NA\_person **where** c\_firstn **not** **like** '%n%';

**select** \* **from** NA\_person **where** c\_firstn **like** '%n%';

**select** **count**(1),o\_quantity **from** NA\_orders **group** **by** o\_quantity

**having** **count**(1)>1

**order** **by** o\_quantity **desc**;

Table

Description automatically generated

**select** \* **from**(

**select** **dense\_rank**() **over**( **PARTITION** **BY** o\_id **ORDER** **BY** o\_quantity **asc**) **as** o\_quantity,o\_id

**from** NA\_orders **where** o\_id =100

)x

**where** o\_quantity=5;

**select** r.o\_id,p.c\_id

**from** NA\_orders.r,NA\_person.p

**right** **join** NA\_person

**on**

r.o\_id=NA\_p.c\_id;

**select** **upper**(c\_firstn) **as** fname,**lower**(c\_lastn)**as** lname,len(c\_phone),**LTRIM**(**RTRIM**(c\_firstn))

**from** NA\_person

**select** **substring**('nehasingh',1,10)**as** firstn

**from** NA\_person

**select** charindex('a','neha')**as** 'e' **from** NA\_person

**select** **replace**('neha singh','singh','@')

Table

Description automatically generated

**from** NA\_person

**select** **concat** (c\_firstn,c\_lastn)**as** c\_firstn

**from** NA\_person

Table

Description automatically generated