**Instructions:**

Please share your answers filled in line in the Word document. Submit code separately wherever applicable.

Please ensure you update all the details:

**Name: N.Harsha vardhan Batch ID: nharsha569103528**

**Topic: Introduction to Database**

**Joins**

1. Run the below query to create the datasets.
2. /\*retrieve sales table from the supermart\_db (sales dataset contains multiple years data)\*/

Answer:

select orderdate , shipDate from sales;

1. /\* Counting the number of distinct customer\_id values in sales table \*/

Answer:

select distinct (customerID),count(customerID) as count\_customerID from sales group by customerID ;

1. /\* Customers with ages between 20 and 60 \*/

* create table customer\_20\_60 as select \* from customers where ages between 20 and 60;

Answer:

CREATE TABLE customer\_20\_60 AS SELECT \* FROM customer WHERE age BETWEEN 20 AND 60;

* select count (\*) from customer\_20\_60;

Answer:

select count(\*) from customer\_20\_60;

1. Find the total sales that are done in every state for customer\_20\_60 and the sales table

Hint: Use Joins and Group By command

Answer:

select c.state ,sum(s.sales) as total\_sales

from customer\_20\_60 as c inner join sales as s

on c.CustomerID = s.CustomerID

group by state order by state LIMIT 0,1000;

1. Get data containing Product\_id, Product name, category, total sales value of that product, and total quantity sold. (Use sales and product tables)

Answer:

select

p.ProductID,

p.Category,

sum(s.sales) as total\_sales,

sum(s.Quantity) as total\_quantity,

count(s.ProductID) as count\_product

from product as p

inner join sales as s

on p.ProductID = s.ProductID

group by s.ProductID limit 1000;