**Instructions:**

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

Please ensure you update all the details:

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**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)\*/

SELECT \* FROM supermart\_db.sales;

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

SELECT COUNT(DISTINCT customer\_id) AS distinct\_customers FROM supermart\_db.sales;

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

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

CREATE TABLE customer\_20\_60 AS

SELECT \* FROM supermart\_db.customers WHERE age BETWEEN 20 AND 60;

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

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

SELECT c.state, SUM(s.sales) AS total\_sales

FROM sales s

JOIN customer\_20\_60 c ON s.customerid = c.customerid

GROUP BY c.state;

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

SELECT p.productid, p.productname, p.category,

SUM(s.sales) AS total\_sales,

SUM(s.quantity) AS total\_quantity\_sold

FROM supermart\_db.sales s

JOIN supermart\_db.products p ON s.productid = p.productid

GROUP BY p.productid, p.productname, category;