**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)\*/**
3. **/\* Counting the number of distinct customer\_id values in sales table \*/**
4. **/\* Customers with ages between 20 and 60 \*/**

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

**ANSWERS**

#1 a)ANSWER

use supermart\_db;

show tables;

select \* from sales;

#b) ANSWER

select distinct count(customer\_id) from sales ;

#c) ANSWER

select customer\_name, age from customer where age between 20 and 60;

#D) ANSWER

CREATE TABLE CUSTOMER\_20\_60 AS

(select customer\_name, age from customer where age between 20 and 60);

#E) ANSWER

SELECT COUNT(\*) FROM CUSTOMER\_20\_60;

SELECT \* 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**

2) ANSWER

select \* from sales;

select \* from CUSTOMER;

select \* from CUSTOMER\_20\_60;

SELECT C.STATE, SUM( S.SALES) AS TOTAL\_SALES FROM SALES AS S

INNER JOIN CUSTOMER AS C ON C.CUSTOMER\_ID = S.CUSTOMER\_ID

INNER JOIN CUSTOMER\_20\_60 AS C2060 ON C.CUSTOMER\_NAME = C2060.CUSTOMER\_NAME

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)**

#3) ANSWER

SELECT P.PRODUCT\_ID , P.PRODUCT\_NAME , P.CATEGORY, SUM(S.SALES) AS TOTAL\_SALES ,

SUM(S.QUANTITY) AS TOTAL\_QUANTITY

FROM SALES AS S

INNER JOIN product AS P

ON P.PRODUCT\_ID = S.PRODUCT\_ID

GROUP BY P.PRODUCT\_NAME , P.PRODUCT\_ID, P.CATEGORY;