# Assignment:- 05
# Joins

**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.
    a. **/*retrieve sales table from the supermart_db (sales dataset contains multiple years data)*/**
    USE SUPERMART_DB;
    SELECT * FROM SALES;

    b. /* Counting the number of distinct customer_id values in sales table */

```
3 •    SELECT COUNT(DISTINCT customer_id) AS distinct_customers FROM SALES;
4
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| distinct_customers |
|---|
| 410 |

    c. /* Customers with ages between 20 and 60 */
    - create table customer_20_60 as select * from customers where ages between 20 and 60;
      SELECT * FROM customers WHERE Age BETWEEN 20 AND 60;
    - select count (*) from customer_20_60;

```
5 •    SELECT COUNT(*) AS total_customers FROM customers WHERE Age BETWEEN 20 AND 60;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| total_customers |
|---|
| 597 |

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2. 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 customers c
JOIN sales s ON c.customer_id = s.customer_id
WHERE c.Age BETWEEN 20 AND 60
GROUP BY c.state;
```

3. 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.product_id, p.product_name, p.category,
    SUM(s.sales) AS total_sales_value,
    SUM(s.quantity) AS total_quantity_sold
FROM products p
JOIN sales s ON p.product_id = s.product_id
GROUP BY p.product_id, p.product_name, p.category;
```