Indian institute of Information Technology Bhopal
ComputerScienceandEngineering

ASSIGNMENT No.3

CSE SECTION 1

DBMS LAB

Submitted to:

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24U020011

1. Find the total quantity of all products sold.

```
SELECT SUM(Quantity) AS Total_Quantity FROM Sales;
```

2. Find the minimum price among all products.

```
SELECT MIN(Price) AS Min_Price FROM Sales;
```

3. Count the total number of sales records in the table.

```
SELECT COUNT(*) AS Total_Sales_Records FROM Sales;
```

4. Find the total quantity sold per product.

```
SELECT ProductName, SUM(Quantity) ASTotal_Quantity
FROM Sales
GROUP BY ProductName;
```

5. Calculate the total revenue (Quantity × Price) of all sales.

```
SELECTSUM(Quantity * Price)ASTotal_RevenueFROMSales;
```

6. Find the average price of all products.

```
SELECT AVG(Price) AS Average_Price FROM Sales;
```

7. Find the maximum quantity sold in a single transaction.

```
SELECT MAX(Quantity) AS Max_Quantity_Sold FROM Sales;
```

8. Calculate the total quantity of products sold where price > ₹100.

```
SELECT SUM(Quantity) ASTotal_Quantity_Above_100
FROM Sales
WHERE Price > 100;
```

9. Find the average price of products in the 'Electronics' category.

```
SELECT AVG(Price) ASAvg_Electronics_Price
FROM Sales
WHERE Category = 'Electronics';
```

10. Calculate the total revenue from all sales made after '2025-01-01'.

```
SELECT SUM(Quantity * Price)ASRevenue_After_2025Jan01
FROM Sales
WHERE SaleDate > '2025-01-01';
```

11. Find the total revenue generated by each product.

```
SELECT ProductName,SUM(Quantity * Price)ASTotal_Revenue
FROM Sales
GROUP BY ProductName;
```

12. Count how many unique product names are in the table.

```
SELECT COUNT(DISTINCT ProductName) AS Unique_Products FROM Sales;
```

13. Find the average price of products in each category.

```
SELECT Category,AVG(Price)ASAvg_Price
FROM Sales
GROUP BY Category;
```

14. Count how many sales were made in each product category.

```
SELECT Category,COUNT(*)ASSales_Count
FROM Sales
GROUP BY Category;
```

15. Find the maximum quantity sold per product.

```
SELECT ProductName,MAX(Quantity)ASMax_Quantity
FROM Sales
GROUP BY ProductName;
```

Output (Total Revenue by Product):

ProductName	Total_Revenue
Bluetooth Speaker	4500.00
Laptop Stand	2800.00
Water Bottle	1250.00
Wireless Mouse	4800.00
Notebook	500.00
Pen Set	960.00
Desk Lamp	1800.00

Monitor	8500.00