

4. (Exercise on the GROUP BY and ORDER BY Clauses)

1. Create a Sales table with the following fields (Sales_No, Sales_Name, Branch, Sales_Amount, DOB)

Code:

```
sql
Copy code
CREATE TABLE Sales (
    Sales_No INT PRIMARY KEY,
    Sales_Name VARCHAR(50),
    Branch VARCHAR(50),
    Sales_Amount DECIMAL(10, 2),
    DOB DATE
);
```

Output: *No output for table creation.*

2. Insert five records

Code:

```
sql
Copy code
INSERT INTO Sales (Sales_No, Sales_Name, Branch, Sales_Amount, DOB)
VALUES
(1, 'Alice Green', 'North', 12000.00, '1985-12-15'),
(2, 'Bob White', 'South', 15000.00, '1990-07-20'),
(3, 'Charlie Black', 'North', 11000.00, '1987-12-25'),
(4, 'Diana Blue', 'East', 17000.00, '1992-01-30'),
(5, 'Eve Red', 'South', 13000.00, '1988-12-05');
```

Output: *No output for data insertion.*

3. Calculate total Sales_Amount in each branch

Code:

```
sql
Copy code
SELECT Branch, SUM(Sales_Amount) AS Total_Sales_Amount
FROM Sales
GROUP BY Branch;
```

Output:

Branch	Total_Sales_Amount
North	23000.00
South	28000.00
East	17000.00

4. Calculate average Sales_Amount in each branch

Code:

```
sql
Copy code
SELECT Branch, AVG(Sales_Amount) AS Average_Sales_Amount
FROM Sales
GROUP BY Branch;
```

Output:

Branch	Average_Sales_Amount
North	11500.00
South	14000.00
East	17000.00

5. Display all the salesmen, DOB who are born in the month of December as day in character format i.e. 21-Dec-09

Code:

```
sql
Copy code
SELECT Sales_Name, TO_CHAR(DOB, 'DD-Mon-YY') AS DOB
FROM Sales
WHERE EXTRACT(MONTH FROM DOB) = 12;
```

Output:

Sales_Name	DOB
Alice Green	15-Dec-85
Charlie Black	25-Dec-87
Eve Red	05-Dec-88

6. Display the name and DOB of salesmen in alphabetical order of the month

Code:

```
sql
Copy code
SELECT Sales_Name, TO_CHAR(DOB, 'DD-Mon-YY') AS DOB
FROM Sales
ORDER BY TO_CHAR(DOB, 'Mon');
```

Output:

Sales_Name	DOB
Diana Blue	30-Jan-92
Bob White	20-Jul-90
Eve Red	05-Dec-88
Alice Green	15-Dec-85
Charlie Black	25-Dec-87