# Lab Assignment 4

 $Program \ 1$  : Change the client\_master table by converting each value of the field in uppercase .

Source Code:

SELECTUCASE(NAME) FROM CLIENT\_MASTER;

# Output:



 $Program\ 2$  : Disp lay the length of the value in the description field from PRO DUCT\_M ASTER table.

Source Code:

SELECT LENGTH (DESCRIPTION) FROM PRODUCT\_MASTER;

|   | LENGTH(DESCRIPTION) |
|---|---------------------|
| • | 8                   |
|   | 6                   |
|   | 12                  |
|   | 5                   |
|   | 8                   |
|   | 10                  |
|   | 12                  |
|   | 10                  |
|   | 6                   |

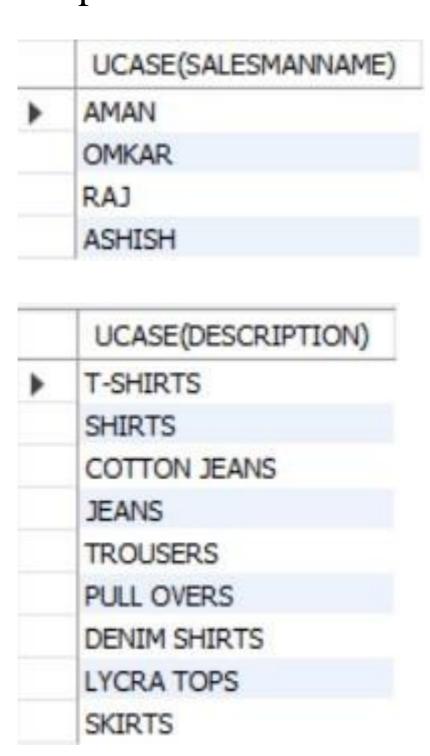
 $Program\ 3$  : Change the Salesman Name and Product Description to All Capital letters.

Source Code:

SELECT UCASE(DESCRIPTION) FROM PRODUCT\_MASTER;

SELECT UCASE(SALESMANNAME) FROM SALESMAN\_MASTER;

# Output:



 $Program\ 4: \ \textbf{Disp lay the system date and time.}$ 

Source Code:

SELECT NOW () FROM CLIENT\_MASTER;

|   | NOW0                |
|---|---------------------|
| ١ | 2024-02-17 21:52:08 |
|   | 2024-02-17 21:52:08 |
|   | 2024-02-17 21:52:08 |
|   | 2024-02-17 21:52:08 |

Program 5: List the order numbers delivered in the month of July.

Source Code:

SELECT COUNT(ORDERDATE) FROM SALES\_ORDER WHERE MONTH(ORDERDATE) = 7;

#### Output:



 $Program \, 6$ : Display the number of days in between the delivery date and order date for each order.

Source Code:

SELECTDATEDIFF( DELYDATE, ORDERDATE) AS DAYS\_BETWEEN FROM SALES \_ORDER;

# Output:

|   | DAYS_BETWEEN |  |
|---|--------------|--|
| ١ | 38           |  |
|   | 2            |  |
|   | 4            |  |
|   | 63           |  |
|   | 2            |  |
|   | 2            |  |

 $Program\ 7\colon$  Display the number of orders delivered in between 20-may-04 and 25-june-04.

Source Code:

SELECT COUNT(ORDERSTATUS) FROM SALES\_ORDER WHERE ORDER S
TATUS="FULFILLED" AND DELY DATE BETWEEN'2004-06-12' AND '2004-06
-12';

|   | COUNT(ORDERSTATUS) |
|---|--------------------|
| ١ | 0                  |

 $Program\ 8$ : Retrieve the order no and name of the weekday for all the order\_date.

Source Code:

SELECT ORDERNO, DAYNAME (ORDERDATE) FROM SALES\_ORDER;

### Output:

|   | ORDERNO | DAYNAME(ORDERDATE) |
|---|---------|--------------------|
| • | O19001  | Saturday           |
|   | O19002  | Friday             |
|   | O19003  | Saturday           |
|   | O19008  | Monday             |
|   | O46865  | Wednesday          |
|   | 046866  | Thursday           |

 $Program\ 9$  : Find the order\_no who have cancelled or in processed orders in the month of M a y.

Source Code:

SELECTORDERNO FROM SALES\_ORDER WHERE ORDERSTATUS="IN PROGRESS" OR ORDERSTATUS="CANCELLED" AND MONTH (ORDERDATE)=5;

# Output:

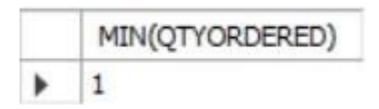


 $Program \ 10: \ \textit{Re trieve minim um qtyordered}.$ 

Source Code:

SELECT MIN(QTYORDER ED)FROM SALES\_ORDER\_DETAILS;

### Output:



 $Program\ 11$ : Display the order no and the product no who got maximum rate of the product.

Source Code:

SELECT ORDERNO,PRODUCTNO,PRODUCTRATE FROM SALES\_ORDER\_DETA ILS WHEREPRODUCTRATE = (SELECT MAX(PRODUCTRATE) FROM SALES\_ORDER\_DETAILS);

## Output:

|          |         | -         |             |
|----------|---------|-----------|-------------|
|          | ORDERNO | PRODUCTNO | PRODUCTRATE |
| <b>•</b> | O19003  | P06734    | 12000.00    |

 $Program\ 12$ : Retrieve the product no. and description of the product who got maximum profit.

Source Code:

SELECT DESCRIPTION, PRODUCTNO, PROFITPERCENT FROM PRODUCT\_MASTER WHERE PROFITPERCENT = (SELECT MAX (PROFITPERCENT) FROM PRODUCT\_MASTER);

# Output:

|   | DESCRIPTION | PRODUCTNO | PROFITPERCENT |
|---|-------------|-----------|---------------|
| ١ | Shirts      | P0345     | 6.00          |
|   | NULL        | NULL      | HULL          |

Program 13: Retrieve the minimum rate of the product for each order.

#### Source Code:

SELECT MIN(PRODUCTRATE) PRODUCTNO, ORDERNO FROM SALES\_ORDE R\_DETAILS GROUP BY ORDERNO;

## Output:

|    | PRODUCTNO | ORDERNO |
|----|-----------|---------|
| 92 | 525.00    | O19001  |
|    | 525.00    | O19002  |
|    | 1050.00   | O19003  |
|    | 525.00    | O19008  |
|    | 525.00    | O46865  |
|    | 8400.00   | 046866  |

 $Program\ 14$ : Find the description and sell price of the product who get at least 3% pro fit.

Source Code:

SELECT DESCRIPTION, SELLPRICE, PROFITPERCENT FROM PRODUCT\_MASTER WHERE PROFITPERCENT>3 OR PROFITPERCENT=3;\

# Output:

|   | DESCRIPTION   | SELLPRICE | PROFITPERCENT |
|---|---|-----------|---------------|
| • | T-Shirts  | 350.00    | 5.00          |
|   | Shirts  | 500.00    | 6.00          |
|   | Cotton Jeans  | 600.00    | 5.00          |
|   | Jeans   | 750.00    | 5.00          |
|   | Denim Shirts  | 350.00    | 4.00          |
|   | Lycra Tops  | 300.00    | 5.00          |
|   | Skirts  | 450.00    | 5.00          |
|   | - 11/1/1/ C. I. |           |               |

 $Program\ 15: \quad \text{Retrie ve the order number that delivered maximum and minimum orders.}$ 

Source Code:

SELECT QTYORDER ED,ORDERNO FROM SALES\_ORDER\_DETAILS WHE RE QTYORDER ED = (SELECT MAX(QTYORDER ED) FROM SALES\_ORDER\_DETAILS);

## Output:

|   | QTYORDERED | ORDERNO |
|---|------------|---------|
| ١ | 10         | O19002  |
|   | 10         | 046865  |
|   | 10         | O19008  |

 $Program\ 16$ : Display the total quality ordered for each order\_no.

Source Code:

SELECT QTYORDERED, ORDERNO FROM SALES\_ORDER\_DETAILS;

### Output:

| QTYORDERED | ORDERNO |
|------------|---------|
| 10         | O19002  |
| 3          | 046865  |
| 3          | 046865  |
| 10         | 046865  |
| 4          | 046865  |
| 2          | O19003  |
| 1          | O19003  |
| 1          | 046866  |
| 1          | O19008  |
| 10         | O19008  |
| 5          | O19008  |

 $Program\ 17:$  Increase the selling price by 13 % of all products with cost price less than 310.

Source Code:

UPDATE PRODUCT\_MASTER SETSELLPRICE=SELLPRICE \* 1.13 WHERE COSTPRICE

<310;

#### SELECT SELLPRICE, COSTPRICE FROM PRODUCT\_MASTER;

# Output:

| SELLPRICE | COSTPRICE |
|-----------|-----------|
| 395.50    | 250.00    |
| 500.00    | 350.00    |
| 600.00    | 450.00    |
| 750.00    | 500.00    |
| 850.00    | 550.00    |
| 700.00    | 450.00    |
| 395.50    | 250.00    |
| 339.00    | 175.00    |
| 508.50    | 300.00    |

 $Program\ 18: \textbf{Count the number of products where profit is more than 4\%.}$ 

Source Code:

SELECT COUNT(PROFITPER CENT)FROM PRODUCT\_MASTER W HEREPROFITPERCENT>4;

### Output:



 $Program \ 19: \ \ \text{List all the items of Sales\_Order\_Details table in decreasing order of Product\_rate.}$ 

Source Code:

SELECT \* FROM SALES\_ORDER\_DETAILS ORDER BY PRODUCTRATE DESC;

| ORDERNO | PRODUCTNO | QTYORDERED | QTYDISP | PRODUCTRATE |
|---------|-----------|------------|---------|-------------|
| O19001  | P07885    | 2          | 1       | 5250.00     |
| 046865  | P07885    | 3          | 1       | 5250.00     |
| O46865  | P07868    | 3          | 3       | 3150.00     |
| O46865  | P0345     | 4          | 4       | 1050.00     |
| O19003  | P0345     | 2          | 2       | 1050.00     |
| O19008  | P07975    | 1          | 0       | 1050.00     |
| O19008  | P07975    | 5          | 3       | 1050.00     |
| 019001  | P00001    | 4          | 4       | 525.00      |
| O19002  | P00001    | 10         | 0       | 525.00      |
| O46865  | P00001    | 10         | 10      | 525.00      |
| O19008  | P00001    | 10         | 5       | 525.00      |

 $Program\ 20$ : Display the Product details in Ascending order with selling price a bove 40 0

grouped based on profit percent.

Source Code:

SELECT\* FROM PRODUCT\_MASTER WHERE SELLPRICE > 400 ORD ER BYPROFITPERCENT;

Output:

| PRODUCTNO | DESCRIPTION  | PROFITPERCENT | UNITMEASURE | QTYONHAND | REORDERLVL | SELLPRICE |
|-----------|--------------|---------------|-------------|-----------|------------|-----------|
| P07868    | Trousers     | 2.00          | Piece       | 150       | 50         | 850.00    |
| P07885    | Pull Overs   | 2.50          | Piece       | 80        | 30         | 700.00    |
| P06734    | Cotton Jeans | 5.00          | Piece       | 100       | 20         | 600.00    |
| P07865    | Jeans        | 5.00          | Piece       | 100       | 20         | 750.00    |
| P08865    | Skirts       | 5.00          | Piece       | 75        | 30         | 508.50    |
| P0345     | Shirts       | 6.00          | Piece       | 150       | 50         | 500.00    |

 $Program\ 21{:}\ \ Display\ the\ product\ no\ and\ description\ of\ product\ for\ which\ sell\ p$  rice is more than or equal to 500 in descending order of the Selling Price

Source Code:

SELECT DESCRIPTION, SELLPRICE PRODUCTNO FROM PRODUCT\_MAST ER WHERE SELLPRICE > 500 ORDER BY SELLPRICE DESC;

### Output:

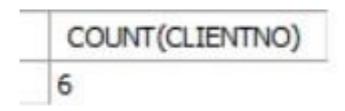
| DESCRIPTION  | PRODUCTNO |  |  |
|--------------|-----------|--|--|
| Trousers     | 850.00    |  |  |
| Jeans        | 750.00    |  |  |
| Pull Overs   | 700.00    |  |  |
| Cotton Jeans | 600.00    |  |  |
| Skirts       | 508.50    |  |  |
| NULL         | HULL      |  |  |

Program 22: Count the client no in which product is ordered after 20-June-02.

Source Code:

SELECTCOUNT(CLIENTNO) FROM SALES\_ORDER WHERE ORDER DATE > "2002-06-20";

#### Output:



Program 23: Count the order no grouped by Order Status and Delivery Type.

Source Code:

SELECT COUNT(ORDERNO) ORDERNO, DELYTYPE FROM SALES\_ORDER ASORDER\_COUNT GROUP BY ORDERSTATUS, DELYTYPE;

| ORDERNO | DELYTYPE |  |  |
|---------|----------|--|--|
| 2       | F        |  |  |
| 2       | P        |  |  |
| 2       | F        |  |  |

 $Program\ 24$ : Find the total number of orders for each product number that have maximum 1200 product rate.

Source Code:

SELECTCOUNT(ORDERNO) AS
PRODUCT\_COUNT\_HAVING\_PRICE\_GREATER\_THAN\_1200 FROM
SALES\_ORDER\_DETAILS WHERE PRODUCTRATE=(SELECT MAX(PRODUCTRA
TE) FROMSALES\_ORDER\_DETAILS);

## Output:

PRODUCT\_COUNT\_HAVING\_PRICE\_GREATER\_THAN\_1200

