Lab Assignment 4

Program 1: **Change the client_master table by converting each value of the field in uppercase.**

Source Code:

```
SELECT UCASE(NAME) FROM CLIENT_MASTER;
```

Output:

	UCASE(NAME)
▶	IVAN BAYROSS
	MAMTA MUZUMDAR
	CHHAYA BANKAR
	ASHVINI JOSHI
	HANCEL COLACO
	DEEPAK SHARMA

Program 2: **Display the length of the value in the description field from PRODUCT_MASTER table.**

Source Code:

```
SELECT LENGTH (DESCRIPTION) FROM PRODUCT_MASTER;
```

Output:

	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:

	UCASE(SALESMANNAME)
▶	AMAN
	OMKAR
	RAJ
	ASHISH

	UCASE(DESCRIPTION)
▶	T-SHIRTS
	SHIRTS
	COTTON JEANS
	JEANS
	TROUSERS
	PULL OVERS
	DENIM SHIRTS
	LYCRA TOPS
	SKIRTS

Program 4: **Display the system date and time.**

Source Code:

```
SELECT NOW() FROM CLIENT_MASTER;
```

Output:

	NOW()
▶	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:

	COUNT(ORDERDATE)
▶	0

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
▶	38
	2
	4
	63
	2
	2

Program 7: **Display the number of orders delivered in between 20-may-04 and 25-june-04.**

Source Code:

```
SELECT COUNT(ORDERSTATUS) FROM SALES_ORDER WHERE ORDERSTATUS="FULFILLED" AND DELYDATE BETWEEN'2004-06-12' AND '2004-06-12';
```

Output:

	COUNT(ORDERSTATUS)
▶	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
	O46866	Thursday

Program 9: **Find the order_no who have cancelled or in processed orders in the month of May.**

Source Code:

```
SELECT ORDERNO  FROM SALES_ORDER WHERE ORDERSTATUS="IN PROGRESS" OR ORDERSTATUS="CANCELLED" AND MONTH(ORDERDATE)=5;
```

Output:

	ORDERNO
▶	O19001
	O19008
	O46866
*	NULL

Program 10: **Retrieve minimum qtyordered.**

Source Code:

```
SELECT MIN(QTYORDERED)FROM SALES_ORDER_DETAILS;
```

Output:

	MIN(QTYORDERED)
▶	1

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_DETAILS WHERE PRODUCTRATE=(SELECT  MAX(PRODUCTRATE) FROM SALES_ORDER_DETAILS);
```

Output:

	ORDERNO	PRODUCTNO	PRODUCTRATE
▶	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
▶	Shirts	P0345	6.00
*	NULL	NULL	NULL

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

Source Code:

```
SELECT MIN(PRODUCTRATE) PRODUCTNO,ORDERNO FROM SALES_ORDER_DETAILS GROUP BY ORDERNO ;
```

Output:

	PRODUCTNO	ORDERNO
	525.00	O19001
	525.00	O19002
	1050.00	O19003
	525.00	O19008
	525.00	O46865
	8400.00	O46866

Program 14: **Find the description and sell price of the product who get at least 3% profit.**

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

Program 15: **Retrieve the order number that delivered maximum and minimum orders.**

Source Code:

```
SELECT QTYORDERED,ORDERNO FROM SALES_ORDER_DETAILS WHERE
QTYORDERED=(SELECT MAX(QTYORDERED) FROM SALES_ORDER_DETAILS);
```

Output:

	QTYORDERED	ORDERNO
▶	10	O19002
	10	O46865
	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	O46865
3	O46865
10	O46865
4	O46865
2	O19003
1	O19003
1	O46866
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  SET SELLPRICE=SELLPRICE * 1.13 WHERE COSTP
RICE
<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: **Count the number of products where profit is more than 4%.**

Source Code:

```
SELECT COUNT(PROFITPERCENT)FROM PRODUCT_MASTER W
HERE PROFITPERCENT>4;
```

Output:

	COUNT(PROFITPERCENT)
	6

Program 19: **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;
```

Output:

ORDERNO	PRODUCTNO	QTYORDERED	QTYDISP	PRODUCTRATE
O19001	P07885	2	1	5250.00
O46865	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
O19001	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 400**

grouped based on profit percent.

Source Code:

```
SELECT * FROM PRODUCT_MASTER WHERE SELLPRICE > 400 ORD
ER BY PROFITPERCENT;
```

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_MASTER 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	NULL

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

Source Code:

```
SELECT COUNT(CLIENTNO) FROM SALES_ORDER WHERE ORDERDATE > "2002-06-20";
```

Output:

COUNT(CLIENTNO)
6

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

Source Code:

```
SELECT COUNT(ORDERNO) ORDERNO,DELYTYPE FROM SALES_ORDER AS ORDER_COUNT GROUP BY ORDERSTATUS , DELYTYPE;
```

Output:

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
1	1