Assignment No.1

Q1. Create the following tables:

i) client_master

columnname	datatype	size
client_no	varchar2	6
name	varchar2	20
address1	varchar2	30
address2	varchar2	30
city	varchar2	15
pincode	number 6	15
bal_due	number 10,2	

ii) Product_master

Columnname	datatype	size
Product_no	varchar2	
Description	varchar2	
Profit_percent	number	
Unit_measure	varchar2	
Qty_on_hand	number	
Reoder_lvl	number	
Sell_price	number	
Cost_price	number	

Q2- Insert the following data into their respective tables:

Clientno	Name	city	pincode	state	bal.due
0001	Ivan	Bombay	400054	Maharashtra	15000
0002	Vandana	Madras	780001	Tamilnadu	0
0003	Pramada	Bombay	400057	Maharashtra	5000
0004	Basu	Bombay	400056	Maharashtra	0
0005	Ravi	Delhi	100001	Delhi	2000
0006	Rukmini	Bombay	400050	Maharashtra	0

Data for Product Master:

Product No.	Desciption	Profit % Percent	Unit measured	Qty on hand	Reorder lvl	Sell price	Cost price
P00001	1.44floppies	5	piece	100	20	525	500
P03453	Monitors	6	piece	10	3	12000	11200
P06734	Mouse	5	piece	20	5	1050	500
P07865	1.22 floppies	5	piece	100	20	525	500
P07868	Keyboards	2	piece	10	3	3150	3050
P07885	CD Drive	2.5	piece	10	3	5250	5100
P07965	540 HDD	4	piece	10	3	8400	8000
P07975	1.44 Drive	5	piece	10	3	1050	1000
P08865	1.22 Drive	5	piece	2	3	1050	1000

Q3:- On the basis of above two tables answer the following queries:

i) Find out the names of all the clients.
ii) Retrieve the list of names and cities of all the clients.
iii) List the various products available from the product_master table.
iv) List all the clients who are located in Bombay.
v) Display the information for client no 0001 and 0002.
vi) Find the products with description as '1.44 drive' and '1.22 Drive'.
vii) Find all the products whose sell price is greater then 5000.
viii) Find the list of all clients who stay in in city 'Bombay' or city 'Delhi' or 'Madras'.
ix) Find the product whose selling price is greater than 2000 and less than or equal to 5000.
x) List the name, city and state of clients not in the state of 'Maharashtra'.

Queries 1.

i.
```
create table client_master( client_no varchar(6) primary key,
name varchar (20),
address1 varchar(30),
address2 varchar(30),
city varchar (15),
state varchar (15),
pincode int (6),
bal_due decimal (10, 2) );
```

ii.
```
create table Product_master (
Product_no varchar (6),
Description varchar (30),
Profit_percent decimal (3,2),
Unit_measure varchar (10),
Oty_on_hand int(6),
Reoder_lvl int(4),
Sell_price decimal (10,2),
Cost decimal (10,2));
```

Queries 2.

i.
```
INSERT INTO client_master (client_no, name, city, pincode,  state, bal_due)
VALUES
('0001', 'Ivan', 'Bombay', '400054', 'Maharashtra', '15000'),
('0002', 'Vandana', 'Madras', '780001', 'Tamilnadu', '0'),
('0003', 'Pramoda', 'Bombay', '400057', 'Maharashtra', '5000'),
('0004', 'Basu', 'Bombay', '400056', 'Maharashtra', '0'),
('0005', 'Ravi', 'Delhi', '100001', 'Delhi', '2000'),
('0006', 'Rukmini', 'Bombay', '400050', 'Maharashtra', '0');
```

```
mysql> select * from client_master;
+-----------+---------+----------+----------+--------+-------------+---------+----------+
| client_no | name    | address1 | address2 | city   | state       | pincode | bal_due  |
+-----------+---------+----------+----------+--------+-------------+---------+----------+
| 0001      | Ivan    | NULL     | NULL     | Bombay | Maharashtra |  400054 | 15000.00 |
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu   |  780001 |     0.00 |
| 0003      | Pramoda | NULL     | NULL     | Bombay | Maharashtra |  400057 |  5000.00 |
| 0004      | Basu    | NULL     | NULL     | Bombay | Maharashtra |  400056 |     0.00 |
| 0005      | Ravi    | NULL     | NULL     | Delhi  | Delhi       |  100001 |  2000.00 |
| 0006      | Rukmini | NULL     | NULL     | Bombay | Maharashtra |  400050 |     0.00 |
+-----------+---------+----------+----------+--------+-------------+---------+----------+
6 rows in set (0.01 sec)
```

ii.

INSERT INTO Product_master
(Product_no, Description, Profit_percent, Unit_measure, Qty_on_hand, Reorder_lvl, Sell_price, Cost_price)
VALUES
('P00001', '1.44floppies', 5, 'piece', 100, 20, 525, 500),
('P03453', 'Monitors', 6, 'piece', 10, 3, 12000, 11200),
('P06734', 'Mouse', 5, 'piece', 20, 5, 1050, 500),
('P07865', '1.22 floppies', 5, 'piece', 100, 20, 525, 500),
('P07868', 'Keyboards', 2, 'piece', 10, 3, 3150, 3050),
('P07885', 'CD Drive', 2.5, 'piece', 10, 3, 5250, 5100),
('P07965', '540 HDD', 4, 'piece', 10, 3, 8400, 8000),
('P07975', '1.44 Drive', 5, 'piece', 10, 3, 1050, 1000),
('P08865', '1.22 Drive', 5, 'piece', 2, 3, 1050, 1000);

```
mysql> select * from Product_master;
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
| Product_no | Description  | Profit_percent | Unit_measure | Qty_on_hand | Reorder_lvl | Sell_price | Cost_price |
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
| P00001     | 1.44floppies |           5.00 | piece        |         100 |          20 |     525.00 |     500.00 |
| P03453     | Monitors     |           6.00 | piece        |          10 |           3 |   12000.00 |   11200.00 |
| P06734     | Mouse        |           5.00 | piece        |          20 |           5 |    1050.00 |     500.00 |
| P07865     | 1.22 floppies |          5.00 | piece        |         100 |          20 |     525.00 |     500.00 |
| P07868     | Keyboards    |           2.00 | piece        |          10 |           3 |    3150.00 |    3050.00 |
| P07885     | CD Drive     |           2.50 | piece        |          10 |           3 |    5250.00 |    5100.00 |
| P07965     | 540 HDD      |           4.00 | piece        |          10 |           3 |    8400.00 |    8000.00 |
| P07975     | 1.44 Drive   |           5.00 | piece        |          10 |           3 |    1050.00 |    1000.00 |
| P08865     | 1.22 Drive   |           5.00 | piece        |           2 |           3 |    1050.00 |    1000.00 |
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
```

Queries 3.

i. select name from client_master;

```
mysql> select name from client_master;
+---------+
| name    |
+---------+
| Ivan    |
| Vandana |
| Pramoda |
| Basu    |
| Ravi    |
| Rukmini |
+---------+
```

ii. select name, city from client_master;

```
mysql> select name,city from client_master;
+---------+--------+
| name    | city   |
+---------+--------+
| Ivan    | Bombay |
| Vandana | Madras |
| Pramoda | Bombay |
| Basu    | Bombay |
| Ravi    | Delhi  |
| Rukmini | Bombay |
+---------+--------+
6 rows in set (0.00 sec)
```

iii. select Description from Product_master;

```
mysql> select Description from Product_master;
+---------------+
| Description   |
+---------------+
| 1.44floppies  |
| Monitors      |
| Mouse         |
| 1.22 floppies |
| Keyboards     |
| CD Drive      |
| 540 HDD       |
| 1.44 Drive    |
| 1.22 Drive    |
+---------------+
```

iv. select name from client_master where city="Bombay";

```
mysql> select name from client_master where city="Bombay";
+---------+
| name    |
+---------+
| Ivan    |
| Pramoda |
| Basu    |
| Rukmini |
+---------+
```

v. select * from client_ master where client_no = or or client_no = "0002";

```
mysql> select * from client_master where client_no = "0001" or client_no = "0002";
+-----------+---------+----------+----------+--------+-------------+---------+----------+
| client_no | name    | address1 | address2 | city   | state       | pincode | bal_due  |
+-----------+---------+----------+----------+--------+-------------+---------+----------+
| 0001      | Ivan    | NULL     | NULL     | Bombay | Maharashtra |  400054 | 15000.00 |
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu   |  780001 |     0.00 |
+-----------+---------+----------+----------+--------+-------------+---------+----------+
2 rows in set (0.00 sec)
```

vi. select * from Product_master where Description="1.44 drive" or Description="1.22 Drive";

```
mysql> SELECT *
    -> FROM Product_master
    -> WHERE Description IN ('1.44 Drive', '1.22 Drive');
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
| Product_no | Description | Profit_percent | Unit_measure | Qty_on_hand | Reorder_lvl | Sell_price | Cost_price |
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
| P07975     | 1.44 Drive  |           5.00 | piece        |          10 |           3 |    1050.00 |    1000.00 |
| P08865     | 1.22 Drive  |           5.00 | piece        |           2 |           3 |    1050.00 |    1000.00 |
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
```

vii. select * from Product_master where Sell_price> 5000;

```
mysql> select * from Product_master where Sell_price> 5000;
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
| Product_no | Description | Profit_percent | Unit_measure | Qty_on_hand | Reorder_lvl | Sell_price | Cost_price |
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
| P03453     | Monitors    |           6.00 | piece        |          10 |           3 |   12000.00 |   11200.00 |
| P07885     | CD Drive    |           2.50 | piece        |          10 |           3 |    5250.00 |    5100.00 |
| P07965     | 540 HDD     |           4.00 | piece        |          10 |           3 |    8400.00 |    8000.00 |
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
3 rows in set (0.00 sec)
```

viii. select * from client_master where city in('Bombay', 'Delhi', 'Madras');

```
mysql> select * from client_master where city in('Bombay','Delhi','Madras');
+-----------+---------+----------+----------+--------+-------------+---------+----------+
| client_no | name    | address1 | address2 | city   | state       | pincode | bal_due  |
+-----------+---------+----------+----------+--------+-------------+---------+----------+
| 0001      | Ivan    | NULL     | NULL     | Bombay | Maharashtra |  400054 | 15000.00 |
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu   |  780001 |     0.00 |
| 0003      | Pramoda | NULL     | NULL     | Bombay | Maharashtra |  400057 |  5000.00 |
| 0004      | Basu    | NULL     | NULL     | Bombay | Maharashtra |  400056 |     0.00 |
| 0005      | Ravi    | NULL     | NULL     | Delhi  | Delhi       |  100001 |  2000.00 |
| 0006      | Rukmini | NULL     | NULL     | Bombay | Maharashtra |  400050 |     0.00 |
+-----------+---------+----------+----------+--------+-------------+---------+----------+
```

ix. select * from Product_master where Sell_price> 2000 and Sell_price<= 5000;

```
mysql> select * from Product_master where Sell_price> 2000 and Sell_price<= 5000;
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
| Product_no | Description | Profit_percent | Unit_measure | Qty_on_hand | Reorder_lvl | Sell_price | Cost_price |
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
| P07868     | Keyboards   |           2.00 | piece        |          10 |           3 |    3150.00 |    3050.00 |
+------------+-------------+----------------+--------------+-------------+-------------+------------+------------+
```

x. select * from client_master where state != "Maharashtra" ;

```
mysql> select name,city, state from client_master where state != "Maharashtra" ;
+---------+--------+-----------+
| name    | city   | state     |
+---------+--------+-----------+
| Vandana | Madras | Tamilnadu |
| Ravi    | Delhi  | Delhi     |
+---------+--------+-----------+
```

Assignment No.2

Que.1 Using the table client master and product master answer the following queries.

i. Change the selling price of '1.44 floppy drive to Rs.1150.00
ii. Delete the record with client 0001 from the client master table.
iii. Change the city of client_no'0005' to Bombay.
iv. Change the bal_due of client_no '0001, to 1000.
v. Find the products whose selling price is more than 1500 and also find the new selling price as original selling price *15.
vi. Find out the clients who stay in a city whose second letter is a.
vii. Find out the name of all clients having 'a' as the second letter in their names.
viii. List the products in sorted order of their description.
ix. Count the total number of orders
x. Calculate the average price of all the products.
xi. Calculate the minimum price of products.
xii. Determine the maximum and minimum prices . Rename the tittle as 'max_price' and min_price respectively.
xiii. Count the number of products having price greater than or equal to 1500.

Queries:

i. update Product_master set Sell_price=1150.00 where Description = '1.44 drive';

```
mysql> select * from Product_master;
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
| Product_no | Description  | Profit_percent | Unit_measure | Qty_on_hand | Reorder_lvl | Sell_price | Cost_price |
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
| P00001     | 1.44floppies |           5.00 | piece        |         100 |          20 |     525.00 |     500.00 |
| P03453     | Monitors     |           6.00 | piece        |          10 |           3 |   12000.00 |   11200.00 |
| P06734     | Mouse        |           5.00 | piece        |          20 |           5 |    1050.00 |     500.00 |
| P07865     | 1.22 floppies |          5.00 | piece        |         100 |          20 |     525.00 |     500.00 |
| P07868     | Keyboards    |           2.00 | piece        |          10 |           3 |    3150.00 |    3050.00 |
| P07885     | CD Drive     |           2.50 | piece        |          10 |           3 |    5250.00 |    5100.00 |
| P07965     | 540 HDD      |           4.00 | piece        |          10 |           3 |    8400.00 |    8000.00 |
| P07975     | 1.44 Drive   |           5.00 | piece        |          10 |           3 |    1150.00 |    1000.00 |
| P08865     | 1.22 Drive   |           5.00 | piece        |           2 |           3 |    1050.00 |    1000.00 |
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
```

ii. delete from client_master where client_no='0001';

```
mysql> select * from client_master;
+-----------+---------+----------+----------+--------+-------------+---------+---------+
| client_no | name    | address1 | address2 | city   | state       | pincode | bal_due |
+-----------+---------+----------+----------+--------+-------------+---------+---------+
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu   |  780001 |    0.00 |
| 0003      | Pramoda | NULL     | NULL     | Bombay | Maharashtra |  400057 | 5000.00 |
| 0004      | Basu    | NULL     | NULL     | Bombay | Maharashtra |  400056 |    0.00 |
| 0005      | Ravi    | NULL     | NULL     | Delhi  | Delhi       |  100001 | 2000.00 |
| 0006      | Rukmini | NULL     | NULL     | Bombay | Maharashtra |  400050 |    0.00 |
+-----------+---------+----------+----------+--------+-------------+---------+---------+
```

iii. update client_master set city = 'Bombay' where client_no='0005';

```
mysql> select * from client_master;
+-----------+---------+----------+----------+--------+-------------+---------+---------+
| client_no | name    | address1 | address2 | city   | state       | pincode | bal_due |
+-----------+---------+----------+----------+--------+-------------+---------+---------+
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu   |  780001 |    0.00 |
| 0003      | Pramoda | NULL     | NULL     | Bombay | Maharashtra |  400057 | 5000.00 |
| 0004      | Basu    | NULL     | NULL     | Bombay | Maharashtra |  400056 |    0.00 |
| 0005      | Ravi    | NULL     | NULL     | Bombay | Delhi       |  100001 | 2000.00 |
| 0006      | Rukmini | NULL     | NULL     | Bombay | Maharashtra |  400050 |    0.00 |
+-----------+---------+----------+----------+--------+-------------+---------+---------+
```

iv. update client_master set bal_due = 1000 where client_no='0001';

```
mysql> select * from client_master;
+-----------+---------+----------+----------+--------+-------------+---------+---------+
| client_no | name    | address1 | address2 | city   | state       | pincode | bal_due |
+-----------+---------+----------+----------+--------+-------------+---------+---------+
| 0001      | Ivan    | NULL     | NULL     | Bombay | Maharashtra |  400054 | 1000.00 |
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu   |  780001 |    0.00 |
| 0003      | Pramoda | NULL     | NULL     | Bombay | Maharashtra |  400057 | 5000.00 |
| 0004      | Basu    | NULL     | NULL     | Bombay | Maharashtra |  400056 |    0.00 |
| 0005      | Ravi    | NULL     | NULL     | Bombay | Delhi       |  100001 | 2000.00 |
| 0006      | Rukmini | NULL     | NULL     | Bombay | Maharashtra |  400050 |    0.00 |
+-----------+---------+----------+----------+--------+-------------+---------+---------+
```

v. select Product_no, Description, Sell_price, (Sell_price*15) as New_selling_price from Product_master where Sell_price>1500;

```
mysql> select Product_no, Description, Sell_price, (Sell_price*15) as New_selling_price from Product_master where Sell_price>1500;
+------------+-------------+------------+-------------------+
| Product_no | Description | Sell_price | New_selling_price |
+------------+-------------+------------+-------------------+
| P03453     | Monitors    |   12000.00 |         180000.00 |
| P07868     | Keyboards   |    3150.00 |          47250.00 |
| P07885     | CD Drive    |    5250.00 |          78750.00 |
| P07965     | 540 HDD     |    8400.00 |         126000.00 |
+------------+-------------+------------+-------------------+
```

vi. select * from client _master where city like "_a%" ;

```
mysql> select * from client_master where city like "_a%";
+-----------+---------+----------+----------+--------+-----------+---------+---------+
| client_no | name    | address1 | address2 | city   | state     | pincode | bal_due |
+-----------+---------+----------+----------+--------+-----------+---------+---------+
| 0002      | Vandana | NULL     | NULL     | Madras | Tamilnadu |  780001 |    0.00 |
+-----------+---------+----------+----------+--------+-----------+---------+---------+
```

vii. select name from client_master where name like "_a%" ;

```
mysql> select name from client_master where name like "_a%";
+---------+
| name    |
+---------+
| Vandana |
| Basu    |
| Ravi    |
+---------+
```

viii. select * from Product_master order by Description;

```
mysql> select * from Product_master order by Description;
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
| Product_no | Description  | Profit_percent | Unit_measure | Qty_on_hand | Reorder_lvl | Sell_price | Cost_price |
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
| P08865     | 1.22 Drive   |           5.00 | piece        |           2 |           3 |    1050.00 |    1000.00 |
| P07865     | 1.22 floppies|           5.00 | piece        |         100 |          20 |     525.00 |     500.00 |
| P07975     | 1.44 Drive   |           5.00 | piece        |          10 |           3 |    1150.00 |    1000.00 |
| P00001     | 1.44floppies |           5.00 | piece        |         100 |          20 |     525.00 |     500.00 |
| P07965     | 540 HDD      |           4.00 | piece        |          10 |           3 |    8400.00 |    8000.00 |
| P07885     | CD Drive     |           2.50 | piece        |          10 |           3 |    5250.00 |    5100.00 |
| P07868     | Keyboards    |           2.00 | piece        |          10 |           3 |    3150.00 |    3050.00 |
| P03453     | Monitors     |           6.00 | piece        |          10 |           3 |   12000.00 |   11200.00 |
| P06734     | Mouse        |           5.00 | piece        |          20 |           5 |    1050.00 |     500.00 |
+------------+--------------+----------------+--------------+-------------+-------------+------------+------------+
```

ix. select sum(Qty_on_hand) as Total_number_of_orders from Product_master;

```
mysql> select sum(Qty_on_hand) as Total_number_of_orders from Product_master;
+------------------------+
| Total_number_of_orders |
+------------------------+
|                    272 |
+------------------------+
```

x. select avg(Cost_price) as Average_price from Product_master;

```
mysql> select avg(Cost_price) as Average_price from Product_master;
+---------------+
| Average_price |
+---------------+
|   3427.777778 |
+---------------+
```

xi. select min (Cost_price) as Minimum_price from Product_master;

```
mysql> select min(Cost_price) as Minimum_price from Product_master;
+---------------+
| Minimum_price |
+---------------+
|        500.00 |
+---------------+
```

xii. select max(Cost_price) as max_price, min (Cost_price) as min_price from Product_master;

```
mysql> select max(Cost_price) as max_price, min(Cost_price) as min_price from Product_master;
+-----------+-----------+
| max_price | min_price |
+-----------+-----------+
|  11200.00 |    500.00 |
+-----------+-----------+
```

xiii. select count(*) as Product_count from Product_master where Sell_price>1500;

```
mysql> select count(*) as Product_count from Product_master where Sell_price>1500;
+---------------+
| Product_count |
+---------------+
|             4 |
+---------------+
```

Assignment No.3

Question :

1 Find average sell-price from product_master.
2 Find minimum of balance due from client-master.
3 Find the number of products from product-master.
4 Find no of rows in table client_master.
5 Find total balance due from client_master.
6 Find absolute value of (-15).
7 Find square of 3.
8 Find round (15.19,1).
9 Find square root of 25.
10 Find lower case of 'MTECH".
11 Find upper case of "gentleman".
12 Write in proper case 'MTECH".

Queries:

1. select avg(Sell_price) as Average_price from Product_master;

```
mysql> select avg(Sell_price) as Average_price from Product_master;
+---------------+
| Average_price |
+---------------+
|   3677.777778 |
+---------------+
```

2. select min(bal_due) as min_bal_due from client_master;

```
mysql> select min(bal_due) as min_bal_due from client_master;
+-------------+
| min_bal_due |
+-------------+
|        0.00 |
+-------------+
```

3. select count(*) as Total_products from Product_master;

```
mysql> select count(*) as Total_products from Product_master;
+----------------+
| Total_products |
+----------------+
|              9 |
+----------------+
```

4. select count(*) as Total_rows from client_master;

```
mysql> select count(*) as Total_rows from client_master;
+------------+
| Total_rows |
+------------+
|          6 |
+------------+
```

5. select sum (bal_due) as Total_bal_due from client_master;

```
mysql> select sum(bal_due) as Total_bal_due from client_master;
+--------------+
| Total_bal_due |
+--------------+
|       8000.00 |
+--------------+
```

6. select abs(-15) as Absolute_value;

```
mysql> select abs(-15) as
    -> Absolute_value;
+----------------+
| Absolute_value |
+----------------+
|             15 |
+----------------+
```

7. select 3*3 as Square_of_3;

```
mysql> select 3*3 as Square_of_3;
+-------------+
| Square_of_3 |
+-------------+
|           9 |
+-------------+
```

8. select round (15.19,1) as Rounded_value;

```
mysql> select round(15.19,1) as Rounded_value;
+---------------+
| Rounded_value |
+---------------+
|          15.2 |
+---------------+
```

9. select sqrt(25) as Square_root_of_25;

```
mysql> select sqrt(25) as Square_root_of_25;
+--------------------+
| Square_root_of_25 |
+--------------------+
|                  5 |
+--------------------+
```

10. select lower ('MTECH') as Lower_case_MTECH;

```
mysql> select lower('MTECH') as Lower_case_MTECH;
+------------------+
| Lower_case_MTECH |
+------------------+
| mtech            |
+------------------+
```

11. select upper('gentleman') as Upper_case_MTECH;

```
mysql> select upper('gentleman') as Upper_case_MTECH;
+------------------+
| Upper_case_MTECH |
+------------------+
| GENTLEMAN        |
+------------------+
```

12. select concat(upper(left('MTECH', 1)), lower (substring('MTECH', 2))) as Proper_case_MTECH;

```
mysql> select concat( upper( left( 'MTECH',1)), lower( substring( 'MTECH', 2))) as Proper_case_MTECH;
+-------------------+
| Proper_case_MTECH |
+-------------------+
| Mtech             |
+-------------------+
```

Assignment No.4

Question:

1. Print the information from sales_order table for orders placed in the month of January.
2. Display the order_no & day on which clients placed their order.
3. Display the month and date when the order must be delivered.
4. Display the order date in the format DDMMYY.
5. Find the date i1 days after today's date.
6. Find the no of days elapsed between today's date and delivery date of the orders placed by the clients.
7. Print the description and total qty sold for each product in product_master.
8. Find the sum total of all the billed orders for the month of January.

Create sales_order Table:

create table sales_order Order_no int(6), Client_id int(5), Order_date date, Delivery_date date, Billed_amount decimal (10,2), Quantity_sold int (5));

```
mysql> INSERT INTO sales_order (Order_no, Client_id, Order_date, Delivery_date, Billed_amount, Quantity_sold)
    -> VALUES
    -> (1001, 1, '2024-01-05', '2024-01-10', 5000.00, 5),
    -> (1002, 2, '2024-01-12', '2024-01-17', 7500.00, 10),
    -> (1003, 3, '2024-01-15', '2024-01-20', 12000.00, 20),
    -> (1004, 4, '2024-02-02', '2024-02-07', 3000.00, 3),
    -> (1005, 5, '2024-02-05', '2024-02-12', 4500.00, 8),
    -> (1006, 1, '2024-01-18', '2024-01-25', 2000.00, 2),
    -> (1007, 2, '2024-01-22', '2024-01-27', 6000.00, 6),
    -> (1008, 3, '2024-01-25', '2024-01-30', 8000.00, 9),
    -> (1009, 4, '2024-03-01', '2024-03-05', 10000.00, 15),
    -> (1010, 5, '2024-03-05', '2024-03-10', 7000.00, 7);
Query OK, 10 rows affected (0.02 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
mysql> select * from sales_order
    -> ;
+----------+-----------+------------+---------------+---------------+---------------+
| Order_no | Client_id | Order_date | Delivery_date | Billed_amount | Quantity_sold |
+----------+-----------+------------+---------------+---------------+---------------+
|     1001 |         1 | 2024-01-05 | 2024-01-10    |       5000.00 |             5 |
|     1002 |         2 | 2024-01-12 | 2024-01-17    |       7500.00 |            10 |
|     1003 |         3 | 2024-01-15 | 2024-01-20    |      12000.00 |            20 |
|     1004 |         4 | 2024-02-02 | 2024-02-07    |       3000.00 |             3 |
|     1005 |         5 | 2024-02-05 | 2024-02-12    |       4500.00 |             8 |
|     1006 |         1 | 2024-01-18 | 2024-01-25    |       2000.00 |             2 |
|     1007 |         2 | 2024-01-22 | 2024-01-27    |       6000.00 |             6 |
|     1008 |         3 | 2024-01-25 | 2024-01-30    |       8000.00 |             9 |
|     1009 |         4 | 2024-03-01 | 2024-03-05    |      10000.00 |            15 |
|     1010 |         5 | 2024-03-05 | 2024-03-10    |       7000.00 |             7 |
+----------+-----------+------------+---------------+---------------+---------------+
10 rows in set (0.00 sec)
```

Queries:

i. select * from sales_order where month(Order_date)=1;

```
mysql> select * from sales_order where month(Order_date)=1;
+----------+-----------+------------+---------------+---------------+---------------+
| Order_no | Client_id | Order_date | Delivery_date | Billed_amount | Quantity_sold |
+----------+-----------+------------+---------------+---------------+---------------+
|     1001 |         1 | 2024-01-05 | 2024-01-10    |       5000.00 |             5 |
|     1002 |         2 | 2024-01-12 | 2024-01-17    |       7500.00 |            10 |
|     1003 |         3 | 2024-01-15 | 2024-01-20    |      12000.00 |            20 |
|     1006 |         1 | 2024-01-18 | 2024-01-25    |       2000.00 |             2 |
|     1007 |         2 | 2024-01-22 | 2024-01-27    |       6000.00 |             6 |
|     1008 |         3 | 2024-01-25 | 2024-01-30    |       8000.00 |             9 |
+----------+-----------+------------+---------------+---------------+---------------+
```

ii. select Order_no, dayname (Order_date) as day from sales_order;

```
mysql> select Order_no, dayname(Order_date) as day from sales_order;
+----------+----------+
| Order_no | day      |
+----------+----------+
|     1001 | Friday   |
|     1002 | Friday   |
|     1003 | Monday   |
|     1004 | Friday   |
|     1005 | Monday   |
|     1006 | Thursday |
|     1007 | Monday   |
|     1008 | Thursday |
|     1009 | Friday   |
|     1010 | Tuesday  |
+----------+----------+
```

iii. select Order_no, monthname (Delivery_date) as Month, dayname (Delivery_date) as Day from sales_order;

```
mysql> select Order_no, monthname(Delivery_date) as Month, dayname(Delivery_date) as Day from sales_order;
+----------+----------+-----------+
| Order_no | Month    | Day       |
+----------+----------+-----------+
|     1001 | January  | Wednesday |
|     1002 | January  | Wednesday |
|     1003 | January  | Saturday  |
|     1004 | February | Wednesday |
|     1005 | February | Monday    |
|     1006 | January  | Thursday  |
|     1007 | January  | Saturday  |
|     1008 | January  | Tuesday   |
|     1009 | March    | Tuesday   |
|     1010 | March    | Sunday    |
+----------+----------+-----------+
```

iv. select Order_no, date_format (Order_date,'%d%m%') as Formated_order_date from sales_order;

```
mysql> select Order_no, date_format(Order_date, '%d%m%y') as Formated_order_date from sales_order;
+----------+---------------------+
| Order_no | Formated_order_date |
+----------+---------------------+
|     1001 | 050124              |
|     1002 | 120124              |
|     1003 | 150124              |
|     1004 | 020224              |
|     1005 | 050224              |
|     1006 | 180124              |
|     1007 | 220124              |
|     1008 | 250124              |
|     1009 | 010324              |
|     1010 | 050324              |
+----------+---------------------+
```

v. select curdate() as Today_date, date_add(curdate(), interval 11 day) as Date_of_11_days_after;

```
mysql> select curdate() as Today_date, date_add(curdate(), interval 11 day) as Date_of_11_days_after;
+------------+-----------------------+
| Today_date | Date_of_11_days_after |
+------------+-----------------------+
| 2024-11-22 | 2024-12-03            |
+------------+-----------------------+
```

vi. select Order_no, abs(datediff(Delivery_date, curdate())) as elapsed_days from sales_order;

```
mysql> select Order_no, abs(datediff(Delivery_date, curdate())) as elapsed_days from sales_order;
+----------+--------------+
| Order_no | elapsed_days |
+----------+--------------+
|     1001 |          317 |
|     1002 |          310 |
|     1003 |          307 |
|     1004 |          289 |
|     1005 |          284 |
|     1006 |          302 |
|     1007 |          300 |
|     1008 |          297 |
|     1009 |          262 |
|     1010 |          257 |
+----------+--------------+
```

vii. select Description, Qty_on_hand from Product_master;

```
mysql> select Description, Qty_on_hand from Product_master;
+---------------+-------------+
| Description   | Qty_on_hand |
+---------------+-------------+
| 1.44floppies  |         100 |
| Monitors      |          10 |
| Mouse         |          20 |
| 1.22 floppies |         100 |
| Keyboards     |          10 |
| CD Drive      |          10 |
| 540 HDD       |          10 |
| 1.44 Drive    |          10 |
| 1.22 Drive    |           2 |
+---------------+-------------+
```

viii. select sum (Billed_amount) from sales_order where month (Order_date)=1;

```
mysql> select sum(Billed_amount) from sales_order where month(Order_date)=1;
+--------------------+
| sum(Billed_amount) |
+--------------------+
|           40500.00 |
+--------------------+
```