ASSIGNMENT - 4

Part - 1

i) To display the name of the month of the current date.

```
mysql> select month(current_date);
+---------------------+
| month(current_date) |
+---------------------+
|                   9 |
+---------------------+
1 row in set (0.00 sec)
```

ii) To remove spaces from the beginning and end of a string, Panorama ".

```
mysql> select trim(' Panaroma ');
+---------------------+
| trim(' Panaroma ')  |
+---------------------+
| Panaroma            |
+---------------------+
1 row in set (0.00 sec)
```

iii) To display the name of the day eg, Friday or Sunday from your date of birth, dob.

```
mysql> select dayname('2003-10-17');
+-----------------------+
| dayname('2003-10-17') |
+-----------------------+
| Friday                |
+-----------------------+
1 row in set (0.00 sec)
```

iv) To display the starting position of your first name(fname) from your whole name(name).

```
mysql> select instr('Nanda Krishnan','Nanda') as Name;
+------+
| Name |
+------+
|    1 |
+------+
1 row in set (0.00 sec)
```

v) To compute the remainder of division between two numbers, n1 and n2

```
mysql> select mod(10,2) as reminder;
+----------+
| reminder |
+----------+
|        0 |
+----------+
1 row in set (0.00 sec)

mysql> select mod(10,3) as reminder;
+----------+
| reminder |
+----------+
|        1 |
+----------+
1 row in set (0.00 sec)
```

```
mysql> create database duk1;
Query OK, 1 row affected (0.02 sec)

mysql> use duk1;
Database changed
mysql> CREATE TABLE store (
    ->      order_no INTEGER,
    ->      code INTEGER,
    ->      item VARCHAR(255),
    ->      quantity INTEGER,
    ->      price DECIMAL(10, 2),
    ->      discount DECIMAL(10, 2),
    ->      mrp DECIMAL(10, 2)
    -> );
Query OK, 0 rows affected (0.09 sec)

mysql> INSERT INTO store (order_no, code, item, quantity, price, discount, mrp) VALUES
    -> (1, 101, 'Laptop', 2, 50000, 500, 55000),
    -> (2, 102, 'Phone', 3, 20000, 200, 22000),
    -> (3, 103, 'Tablet', 5, 15000, 150, 16500);
Query OK, 3 rows affected (0.05 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

Write an SQL query to display all the rows from the store table.

```
mysql> select * from store;
+----------+------+--------+----------+----------+----------+----------+
| order_no | code | item   | quantity | price    | discount | mrp      |
+----------+------+--------+----------+----------+----------+----------+
|        1 |  101 | Laptop |        2 | 50000.00 |   500.00 | 55000.00 |
|        2 |  102 | Phone  |        3 | 20000.00 |   200.00 | 22000.00 |
|        3 |  103 | Tablet |        5 | 15000.00 |   150.00 | 16500.00 |
+----------+------+--------+----------+----------+----------+----------+
3 rows in set (0.04 sec)
```

Display the remainder when the price of each item in the store table is divided by 9.

```
mysql> select item,price,mod(price,9) from store as reminder;
+--------+----------+--------------+
| item   | price    | mod(price,9) |
+--------+----------+--------------+
| Laptop | 50000.00 |         5.00 |
| Phone  | 20000.00 |         2.00 |
| Tablet | 15000.00 |         6.00 |
+--------+----------+--------------+
3 rows in set (0.04 sec)
```

Write a query to display the price of each item and its square.

```
mysql> select price,price*price from store as square;
+----------+-----------------+
| price    | price*price     |
+----------+-----------------+
| 50000.00 | 2500000000.0000 |
| 20000.00 |  400000000.0000 |
| 15000.00 |  225000000.0000 |
+----------+-----------------+
3 rows in set (0.00 sec)
```

Write a query to divide the price of each item by 7 and display the result rounded to the nearest integer.

```
mysql> select item,round(price/7) from store;
+--------+----------------+
| item   | round(price/7) |
+--------+----------------+
| Laptop |           7143 |
| Phone  |           2857 |
| Tablet |           2143 |
+--------+----------------+
3 rows in set (0.00 sec)
```

Calculate the total amount (price multiplied by quantity) for each item and display it.

```
mysql> select item, price*quantity from store;
+--------+----------------+
| item   | price*quantity |
+--------+----------------+
| Laptop |      100000.00 |
| Phone  |       60000.00 |
| Tablet |       75000.00 |
+--------+----------------+
3 rows in set (0.00 sec)
```

Write a query to calculate and display the discounted price for each item.

```
mysql> select item,price,discount,price-discount from store;
+--------+----------+----------+----------------+
| item   | price    | discount | price-discount |
+--------+----------+----------+----------------+
| Laptop | 50000.00 |   500.00 |       49500.00 |
| Phone  | 20000.00 |   200.00 |       19800.00 |
| Tablet | 15000.00 |   150.00 |       14850.00 |
+--------+----------+----------+----------------+
3 rows in set (0.00 sec)
```

Write a query to display all items that have a quantity greater than 3.

```
mysql> select item from store where (quantity>3);
+--------+
| item   |
+--------+
| Tablet |
+--------+
1 row in set (0.00 sec)
```

Write a query to display the items in the store table sorted by price in descending order.

```
mysql> select item, price from store order by price DESC;
+--------+----------+
| item   | price    |
+--------+----------+
| Laptop | 50000.00 |
| Phone  | 20000.00 |
| Tablet | 15000.00 |
+--------+----------+
3 rows in set (0.00 sec)
```

Display each item's name and its price with the "Rs." symbol before the price.

```
mysql> select item, concat('Rs.',price) as Price_Final from store;
+--------+-------------+
| item   | Price_Final |
+--------+-------------+
| Laptop | Rs.50000.00 |
| Phone  | Rs.20000.00 |
| Tablet | Rs.15000.00 |
+--------+-------------+
3 rows in set (0.00 sec)
```

Write a query to display all items where the price is between Rs. 15000 and Rs. 50000.

```
mysql> select item,price from store where price between 15000 and 50000;
+--------+----------+
| item   | price    |
+--------+----------+
| Laptop | 50000.00 |
| Phone  | 20000.00 |
| Tablet | 15000.00 |
+--------+----------+
3 rows in set (0.00 sec)
```

Write a query to display all items with code either 101, 102.

```
mysql> select item,price from store where code in (101,102);
+--------+----------+
| item   | price    |
+--------+----------+
| Laptop | 50000.00 |
| Phone  | 20000.00 |
+--------+----------+
2 rows in set (0.00 sec)
```

Write a query to display all items whose item name starts with the letter 'T'.

```
mysql> select item,price from store where item like '%T';
+--------+----------+
| item   | price    |
+--------+----------+
| Tablet | 15000.00 |
+--------+----------+
1 row in set (0.04 sec)
```

Write a query to display all items whose item name contains the substring "Phone".

```
mysql> select item,price from store where item like '%Phone%';
+-------+----------+
| item  | price    |
+-------+----------+
| Phone | 20000.00 |
+-------+----------+
1 row in set (0.00 sec)
```

Write a query to display all items whose item name ends with the letter 'e'.

```
mysql> select item,price from store where item like '%e%';
+--------+----------+
| item   | price    |
+--------+----------+
| Phone  | 20000.00 |
| Tablet | 15000.00 |
+--------+----------+
2 rows in set (0.00 sec)
```

Write a query to display all items where the discount is not NULL (i.e., there is a discount).

```
mysql> select * from store where discount is not null;
+----------+------+--------+----------+----------+----------+----------+
| order_no | code | item   | quantity | price    | discount | mrp      |
+----------+------+--------+----------+----------+----------+----------+
|        1 |  101 | Laptop |        2 | 50000.00 |   500.00 | 55000.00 |
|        2 |  102 | Phone  |        3 | 20000.00 |   200.00 | 22000.00 |
|        3 |  103 | Tablet |        5 | 15000.00 |   150.00 | 16500.00 |
+----------+------+--------+----------+----------+----------+----------+
3 rows in set (0.00 sec)

mysql>
```

Write a query to display items whose item name has exactly 6 characters.

```
mysql> select * from store where item like '_____';
+----------+------+--------+----------+----------+----------+----------+
| order_no | code | item   | quantity | price    | discount | mrp      |
+----------+------+--------+----------+----------+----------+----------+
|        1 |  101 | Laptop |        2 | 50000.00 |   500.00 | 55000.00 |
|        3 |  103 | Tablet |        5 | 15000.00 |   150.00 | 16500.00 |
+----------+------+--------+----------+----------+----------+----------+
2 rows in set (0.00 sec)
```