<u>Assignment – 4</u>

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Q1

i)

```
mysql> SELECT curDATE() AS SystemDate;
+------------+
| SystemDate |
+------------+
| 2023-09-06 |
+------------+
```

ii)

```
mysql> SELECT DAYNAME(SYSDATE()) AS 'Current Day';
+-------------+
| Current Day |
+-------------+
| Wednesday   |
+-------------+
```

iii)

```
mysql> SELECT MONTHNAME(SYSDATE()) AS 'Current Month',
    ->          YEAR(SYSDATE()) AS 'Year';
+---------------+------+
| Current Month | Year |
+---------------+------+
| September     | 2023 |
+---------------+------+
```

iv)

V)

```
mysql> select date_format(sysdate(), '%p') as spelleddate
+-------------+
| spelleddate |
+-------------+
| PM          |
+-------------+
```

vi)

```
mysql> select curdate()+9;
+-------------+
| curdate()+9 |
+-------------+
|    20230915 |
+-------------+
1 row in set (0.00 sec)
```
z

vii)

```
mysql> select round(sysdate(),'MONTH') as 'RoundDate';
+----------------+
| RoundDate      |
+----------------+
| 20230906170346 |
+----------------+
1 row in set, 1 warning (0.00 sec)
```

viii)

```
mysql> SELECT TRUNCATE(SYSDATE(), 'MONTH') AS 'Truncated Date on Month';
+-------------------------+
| Truncated Date on Month |
+-------------------------+
|          20230906170447 |
+-------------------------+
1 row in set, 1 warning (0.00 sec)
```

xi)

```
mysql> select round(sysdate(),'YEar') as 'RoundYDate';
+----------------+
| RoundYDate     |
+----------------+
| 20230906170600 |
+----------------+
1 row in set, 1 warning (0.00 sec)
```

x)

```
mysql>
mysql> SELECT TRUNCATE(SYSDATE(), 'YEAR') AS 'Truncated Date on Year';
+------------------------+
| Truncated Date on Year |
+------------------------+
|         20230906170703 |
+------------------------+
1 row in set, 1 warning (0.00 sec)
```

xi)

```
mysql> SELECT DATE_ADD(SYSDATE(), INTERVAL 3 DAY) AS 'Day After Three Days';
+----------------------+
| Day After Three Days |
+----------------------+
| 2023-09-09 17:07:35  |
+----------------------+
1 row in set (0.00 sec)
```

Q2

```
mysql> select * from emp;
+--------+----------------+------------+-----------+
| emp_id | emp_name       | doj        | salary    |
+--------+----------------+------------+-----------+
|      1 | John Doe       | 2023-01-15 |  50000.00 |
|      2 | Jane Smith     | 2023-02-20 |  55000.00 |
|      3 | Bob Johnson    | 2023-03-10 |  60000.00 |
|      4 | Alice Brown    | 2023-04-05 |  52000.00 |
|      5 | Adamay Bhardwaj | 2023-09-06 | 500000.00 |
+--------+----------------+------------+-----------+
5 rows in set (0.00 sec)
```

12

```
mysql> SELECT DAYNAME(doj) AS 'Day of Joining'
    -> FROM emp;
+----------------+
| Day of Joining |
+----------------+
| Sunday         |
| Monday         |
| Friday         |
| Wednesday      |
| Wednesday      |
+----------------+
5 rows in set (0.00 sec)
```

13

```
mysql> SELECT emp_id, emp_name, doj
    -> FROM emp
    -> WHERE DAYNAME(doj) = 'Monday';
+--------+------------+------------+
| emp_id | emp_name   | doj        |
+--------+------------+------------+
|      2 | Jane Smith | 2023-02-20 |
+--------+------------+------------+
1 row in set (0.00 sec)
```

14

```
mysql> SELECT emp_id, emp_name, doj
    -> FROM emp
    -> WHERE MONTH(doj) = MONTH(CURRENT_DATE());
+--------+-----------------+------------+
| emp_id | emp_name        | doj        |
+--------+-----------------+------------+
|      5 | Adamay Bhardwaj | 2023-09-06 |
+--------+-----------------+------------+
1 row in set (0.00 sec)
```

15

```
mysql> SELECT emp_id, emp_name, doj
    -> FROM emp
    -> WHERE DATEDIFF(CURRENT_DATE(), doj) <= 30;
+--------+-----------------+------------+
| emp_id | emp_name        | doj        |
+--------+-----------------+------------+
|      5 | Adamay Bhardwaj | 2023-09-06 |
+--------+-----------------+------------+
1 row in set (0.00 sec)
```

16,17,18

```
mysql> CREATE TABLE train (
    ->     train_number INT PRIMARY KEY,
    ->     date_of_departure DATE,
    ->     time_of_departure TIME,
    ->     time_of_arrival TIME
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO train (train_number, date_of_departure, time_of_departure, time_of_arrival)
    -> VALUES
    ->     (1, '2023-09-10', '08:00:00', '12:00:00'),
    ->     (2, '2023-09-11', '09:30:00', '14:45:00'),
    ->     (3, '2023-09-12', '14:00:00', '19:30:00'),
    ->     (4, '2023-09-13', '16:45:00', '21:15:00'),
    ->     (5, '2023-09-14', '18:30:00', '23:00:00');
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM train;
+--------------+-------------------+-------------------+-----------------+
| train_number | date_of_departure | time_of_departure | time_of_arrival |
+--------------+-------------------+-------------------+-----------------+
|            1 | 2023-09-10        | 08:00:00          | 12:00:00        |
|            2 | 2023-09-11        | 09:30:00          | 14:45:00        |
|            3 | 2023-09-12        | 14:00:00          | 19:30:00        |
|            4 | 2023-09-13        | 16:45:00          | 21:15:00        |
|            5 | 2023-09-14        | 18:30:00          | 23:00:00        |
+--------------+-------------------+-------------------+-----------------+
5 rows in set (0.00 sec)
```

19

```
mysql> SELECT time_of_departure, time_of_arrival FROM train;
+-------------------+-----------------+
| time_of_departure | time_of_arrival |
+-------------------+-----------------+
| 08:00:00          | 12:00:00        |
| 09:30:00          | 14:45:00        |
| 14:00:00          | 19:30:00        |
| 16:45:00          | 21:15:00        |
| 18:30:00          | 23:00:00        |
+-------------------+-----------------+
```

20

```
mysql> SELECT * FROM TRAIN WHERE HOUR(TIME_OF_ARRIVAL)>=12;
+--------------+-------------------+-------------------+-----------------+
| train_number | date_of_departure | time_of_departure | time_of_arrival |
+--------------+-------------------+-------------------+-----------------+
|            1 | 2023-09-10        | 08:00:00          | 12:00:00        |
|            2 | 2023-09-11        | 09:30:00          | 14:45:00        |
|            3 | 2023-09-12        | 14:00:00          | 19:30:00        |
|            4 | 2023-09-13        | 16:45:00          | 21:15:00        |
|            5 | 2023-09-14        | 18:30:00          | 23:00:00        |
+--------------+-------------------+-------------------+-----------------+
5 rows in set (0.00 sec)
```

```
mysql> select train_number from train where timestamp(date_of_departure, time_of_departure) between now() and now()+interval 1 hour;
Empty set (0.00 sec)

mysql> insert into train values(7, '2023-09-07','00:00:00','04:00:00');
Query OK, 1 row affected (0.00 sec)

mysql> select train_number from train where timestamp(date_of_departure, time_of_departure) between now() and now()+interval 1 hour;
+--------------+
| train_number |
+--------------+
|            7 |
+--------------+
1 row in set (0.00 sec)
```