

2. Write a query to calculate the age based on the date of birth value given in the column.

```
mysql> select patient_id,
-> firstname,lastname,
-> date_of_birth,
-> timestampdiff(year, date_of_birth, curdate()) as age,
-> phone from patients_info;
+-----+-----+-----+-----+-----+
| patient_id | firstname | lastname | date_of_birth | age | phone |
+-----+-----+-----+-----+-----+
| 101 | Divya | Pawar | 1990-10-17 | 31 | 9878912345 |
| 102 | Riya | Patel | 1991-09-16 | 30 | 9866891234 |
| 103 | Pooja | Deo | 2001-10-15 | 20 | 9562384710 |
| 104 | Gauri | vinod | 2010-05-27 | 11 | 9562384571 |
| 105 | Bharti | Bishnoi | 1998-07-10 | 23 | 9558612458 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

3. Write a query which demonstrates date related functions.[Minimum 15]

1.SELECT DATE(CURDATE()) AS todays\_date;

```
mysql> select da
+-----+
| todays_date |
+-----+
| 2021-10-18 |
+-----+
```

2.SELECT DATEDIFF("2021-01-01", "2020-12-24");

```
+-----+
| datediff('2021-01-01','2020,12,24') |
+-----+
| 8 |
+-----+
1 row in set (0.00 sec)
```

3. SELECT DATE\_ADD("2021-06-15", INTERVAL 10 DAY);

```
mysql> SELECT DATE_ADD("2021-06-15", INTERVAL 10 DAY);
+-----+
| DATE_ADD("2021-06-15", INTERVAL 10 DAY) |
+-----+
| 2021-06-25 |
+-----+
1 row in set (0.00 sec)
```

4. SELECT DATE\_ADD("2021-09-15 09:30:21", INTERVAL 15 MINUTE);

```
mysql> SELECT DATE_ADD("2021-09-15 09:30:21", INTERVAL 15 MINUTE);
+-----+
| DATE_ADD("2021-09-15 09:30:21", INTERVAL 15 MINUTE) |
+-----+
| 2021-09-15 09:45:21 |
+-----+
1 row in set (0.00 sec)
```

5. SELECT DATE\_FORMAT("2021-09-15", "%M %d %Y");

```
mysql> SELECT DATE_FORMAT("2021-09-15", "%M %d %Y");
+-----+
| DATE_FORMAT("2021-09-15", "%M %d %Y") |
+-----+
| September 15 2021 |
+-----+
1 row in set (0.00 sec)
```

6.SELECT DATE\_SUB("2021-10-15 08:34:21", INTERVAL 3 HOUR);

```
mysql> SELECT DATE_SUB("2021-10-15 08:34:21", INTERVAL 3 HOUR);
+-----+
| DATE_SUB("2021-10-15 08:34:21", INTERVAL 3 HOUR) |
+-----+
| 2021-10-15 05:34:21 |
+-----+
1 row in set (0.00 sec)
```

7.SELECT ADDTIME("2017-06-15 09:34:21", "2");

```
mysql> SELECT ADDTIME("2017-06-15 09:34:21", "2");
+-----+
| ADDTIME("2017-06-15 09:34:21", "2") |
+-----+
| 2017-06-15 09:34:23 |
+-----+
1 row in set (0.03 sec)
```

8. SELECT CURDATE();

```
mysql> SELECT CURDATE();
+-----+
| CURDATE() |
+-----+
| 2021-10-18 |
+-----+
1 row in set (0.00 sec)
```

9. SELECT CURRENT\_DATE() + 1;

```
mysql> SELECT CURRENT_DATE()+1;
+-----+
| CURRENT_DATE()+1 |
+-----+
| 20211019 |
+-----+
1 row in set (0.04 sec)
```

10. SELECT CURRENT\_TIME();

```
mysql> SELECT CURRENT_TIME();
+-----+
| CURRENT_TIME() |
+-----+
| 16:14:22 |
+-----+
1 row in set (0.03 sec)
```

11.SELECT CURRENT\_TIMESTAMP;

```
mysql> SELECT CURRENT_TIMESTAMP();
+-----+
| CURRENT_TIMESTAMP() |
+-----+
| 2021-10-18 16:14:41 |
+-----+
1 row in set (0.00 sec)
```

12. SELECT DAYNAME("2021-10-15 05:34:21");

```
mysql> SELECT DAYNAME("2021-10-15 05:34:21");
+-----+
| DAYNAME("2021-10-15 05:34:21") |
+-----+
| Friday |
+-----+
1 row in set (0.02 sec)
```

13. SELECT HOUR("2021-06-20 23:34:00");

```
mysql> SELECT HOUR("2021-06-20 23:34:00");
+-----+
| HOUR("2021-06-20 23:34:00") |
+-----+
| 23 |
+-----+
1 row in set (0.00 sec)
```

14. SELECT MONTHNAME("2021-06-15");

```
mysql> SELECT MONTHNAME("2021-06-15");
+-----+
| MONTHNAME("2021-06-15") |
+-----+
| June |
+-----+
1 row in set (0.03 sec)
```

15. SELECT NOW();

```
mysql> SELECT NOW();
+-----+
| NOW() |
+-----+
| 2021-10-18 17:52:40 |
+-----+
1 row in set (0.05 sec)
```

4. Write a query to check the current running process

```
mysql> show processlist;
+-----+-----+-----+-----+-----+-----+-----+-----+
| Id | User      | Host    | db     | Command | Time   | State      | Info      |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 5  | event_scheduler | localhost | NULL | Daemon | 69411 | Waiting on empty queue | NULL |
| 8  | root        | localhost:55158 | patients | Query  | 0       | init       | show processlist |
| 9  | root        | localhost:58389 | NULL   | Sleep   | 542    |             | NULL |
| 10 | root        | localhost:56848 | NULL   | Sleep   | 542    |             | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.08 sec)
```

5. Write a query to insert values in a specific table of your choice in which one of the column has unique constraints and if one tries to insert data which is duplicate based on the column having unique constrain then the value gets updated

6. Write Queries which include inner joins along with subqueries

```
mysql> select*from student_list;
+----+-----+-----+-----+
| st_id | st_name | st_group | stu_score |
+----+-----+-----+-----+
| 101 | Divya | A | 32 |
| 102 | Vidya | B | 34 |
| 103 | ram | C | 45 |
| 104 | firoz | B | 54 |
| 105 | girja | A | 45 |
| 106 | lalsa | C | 56 |
| 107 | dev | A | 89 |
| 108 | Bani | C | 67 |
+----+-----+-----+
8 rows in set (0.15 sec)
```

```
mysql> select * from student_group;
+-----+-----+
| st_group | group_color |
+-----+-----+
| A | Red |
| B | Blue |
| C | Green |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select `MaxScore` as MaxScore,
-> student_group.group_color
-> from student_list
-> inner join student_group
-> on student_list.st_group = student_group.st_group
-> group by student_list.st_group;
+-----+-----+
| MaxScore | group_color |
+-----+-----+
| 89 | Red |
| 54 | Blue |
| 67 | Green |
+-----+-----+
3 rows in set (0.05 sec)
```