Lab-1(18/07/24) - Keyword based queries in MySQL

1.

a.)Write a mysgl query to find year from date

Ans: SELECT YEAR(CURRENT\_DATE);

```
mysql> SELECT YEAR(CURRENT_DATE);
+----+
| YEAR(CURRENT_DATE) |
+----+
| 2024 |
+----+
1 row in set (0.00 sec)
```

b)Check whether the date passed to the query is in the given format or not

Ans: SELECT STR\_TO\_DATE('25/07/2024','%d/%m/%Y') IS NOT NULL;

c) Find the size of schema or user

Ans: SELECT table\_schema AS "Database", ROUND(SUM(data\_length + index\_length) / 1024 / 1024, 2) AS "Size (MB)" FROM information\_schema.TABLES GROUP BY table\_schema;

d)display the current time

Ans : select current\_time;

e)given a date retrieve the next days date

Ans: select date add(current date,interval 1 day);

f) get database's date
Ans : select Curdate();

```
mysql> select Curdate();
+----+
| Curdate() |
+----+
| 2024-07-26 |
+----+
1 row in set (0.00 sec)
```

g)return the default(current) database name

Ans : select database();

h) retrieve the current mysql username and hostname

Ans:select user();

i) find the string that tells mysql server version Ans: select version();

j) perform bitwise or xor and and Ans : select (8|4); Select (8&4); Select (8^4);

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mysql> select (8|4);

| (8|4) |
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k)difference between 2 dates and print the difference in number of dates; mysql> select datediff(current\_date,'2024-07-29');

I) add one day to current date

Ans: mysql> select date\_add(current\_date,interval 1 day);

m)add 2 hours and 50 mins to the current date
Ans: mysql> select date\_add(current\_date,interval 1 day);

n) perform the following operations

Ans: mysql> select

floor(4.5), ceil(4.5), pow(3,4), log(1000), mod(10,4), round(99.9995,3), truncate(99.9995,3);

o)compare two strings and print yes if same or no if not same Ans : select strcmp(string1,string2);

p)simulate the if else construct for the mark and grade system

Ans : mysql> select if(90>=95,'s grade',if(90>=90,'a grade',if(90>=85,'b grade','e grade'))) as grade;

q)simulate ifnull statement

Ans: mysql> select ifnull(37/0,7);