DATE: 25-07-2024

DBMS LAB SESSION 1

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1. Write SQL queries in MySQL for the following.
   Write an SQL Query to find the year from date. SQL Query:
select year(current date); Output:
+----+
| year(current_date) |
+----+
           2024 |
+----+
  Check whether date passed to Query is the date of a given
b.
format or not. SQL Query:
select if(date_format(current_date,'%d-%m-%Y') = current date, 'Yes', 'No'); Output:
+----+
| if(date format(current date,'%d-%m-%Y') = current date, 'Yes' , 'No') |
+----+
No |
+------ C.
Find the size of the SCHEMA/USER.
SQL Query: SELECT SUM(DATA LENGTH + INDEX LENGTH) AS size
        FROM information schema. TABLES
        WHERE TABLE_SCHEMA = 'mysql'; Output:
+----+
| size |
+----+
| 2752512 |
d. Display the current time. SQL Query:
  SELECT(CURRENT TIME); Output:
+----+
| (current time) |
+----+
| 16:20:18
+----+
e. Given a date, retrieve the next days date.
SQL Query: SELECT DATE ADD(current date, INTERVAL 1 DAY); Output:
+----+
| DATE ADD(current date, INTERVAL 1 DAY) |
+----+
1 2024-07-26
+----- f.
Get database date.
SQL Query: select curdate() as database date; Output:
+----+
| database date |
+----+
| 2024-07-25 |
+----+
g. Returns the default(current) database name.
SQL Query: select database();
Output:
+----+
| database() |
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+----+
|Lakshmi106122124 |
+----+
h. Retrieve the current MySQL user name and host name. SQL Query: SELECT USER()
 AS mysql_user_host; Output:
+----+
| mysql user host |
+----+
| root@localhost |
+----+
i. Find the string that tells the MySQL server version. SQL Query: SELECT
 VERSION() AS mysql server version; Output:
+----+
| mysql server version | +--
-----+ |
8.0.37-0ubuntu0.20.04.3
+----+
j. Perform Bitwise OR, Bitwise XOR and Bitwise AND.
SQL Query: SELECT 2 | 6 AS bitwise or, 2 ^ 6 AS bitwise xor, 2 & 6 AS bitwise and;
Output:
+----+
| bitwise or | bitwise xor | bitwise and |
+----+
       6 I
                4 |
+----+
k. Find the difference between two dates and print in terms of the number of days.
 SQL Query: SELECT DATEDIFF('2004-12-31 23:59:59','2004-12-30'); Output:
+----+
| DATEDIFF('2004-12-31 23:59:59','2004-12-30') |
+----+
Add one day to the current date.
SQL Query: SELECT DATE ADD(current date, INTERVAL 1 DAY); Output:
+----+
| DATE ADD(current date, INTERVAL 1 DAY) |
+----+
1 2024-07-26
+-----
   Add two hours and 5000 minutes to the current date and print the new date.
SQL Query: SELECT DATE ADD(current date, INTERVAL '2:5000' HOUR MINUTE); Output:
+----+
| DATE_ADD(current_date,INTERVAL '2:5000' HOUR MINUTE) |
+----+
Find the floor and ceil values of a floating point number. Also operate on
the power, log, modulus, round off and truncate functions. SQL Query: select
floor(5.3), ceil(5.3); Output:
+----+
| floor(6.3) | ceil(6.3) |
+----+
```

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6 | 7 | +----+
SQL Query: SELECT POWER(2, 3), LOG10(100); Output:
+----+
| POWER(2, 3) | LOG10(100) |
+-----
       8 | 2 |
+----+
SQL Query: SELECT MOD(10, 3), ROUND(3.14159, 2), TRUNCATE(3.14159, 2); Output:
+----+
| MOD(10, 3) | ROUND(3.14159, 2) | TRUNCATE(3.14159, 2) |
+----+
       1 |
                   3.14 |
+----+
o. In the first name of the employee, match the following using regular expressions.
SQL Query: SELECT
        ->
            CASE
        ->
               WHEN 'Naini' REGEXP '^n' THEN 'Name starts with n'
        ->
               ELSE 'Name does not start with n'
        ->
            END AS result;
Output:
+----+
| result
+----+
| Name starts with n |
+----+
p. Compare two strings and print the value 'yes' if they are equal,
else print 'no'. SQL Query: SELECT CASE WHEN 'apple' = 'banana' THEN 'yes'
ELSE 'no' END AS result; Output:
+----+
| result |
+----+
```

-> WHEN 85 >= 60 AND 85 < 70 THEN 'D' -> WHEN 85 >= 0 AND 85 < 60 THEN 'F'

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-> ELSE 'Invalid marks'
-> END AS grade;

Output:
+-----+
| marks | grade |
+-----+
| 85 | B |
+-----+
r. Use IFNULL to check whether a mathematical expression gives a NULL value or not

SQL Query: SELECT IFNULL (10 / 5, 'Result is NULL') AS result; Output:
+-----+
| result |
+-----+

| 2.0000 | +----+