## CSLR 51

## **DBMS LAB - SESSION 1**

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1. Write SQL queries in MySQL for the following.
a. Write an SQL Query to find the year from date.
SELECT YEAR('2021-10-14');
b. Check whether date passed to Query is the date of a given format or not.
SELECT DATE('2021-12-15');
c. Find the size of the SCHEMA/USER.
SELECT SUM(ROUND(((DATA_LENGTH + INDEX_LENGTH) / 1024 / 1024), 2)) AS "SIZE IN MB" FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_SCHEMA = "sys";
d. Display the current time.
SELECT CURRENT_TIME;
e. Given a date, retrieve the next day's date.
SELECT DATE_ADD('2021-10-15', interval 1 day);
f. Get database's date.
SELECT CURRENT_DATE;

g. Returns the default(current) database name.

```
SELECT DATABASE();
```

h. Retrieve the current MySQL user name and host name.

SELECT user, host, authentication\_string, plugin from mysql.user;

i. Find the string that tells the MySQL server version.

```
SELECT VERSION();
```

j. Perform Bitwise OR, Bitwise XOR and Bitwise AND.

```
SELECT 5|6 as ANS;
SELECT 5&6 as ANS;
SELECT 5^6 as ANS;
```

k. Find the difference between two dates and print in terms of the number of days.

```
SELECT DATEDIFF('2020-06-25', '2020-06-15');
```

I Add and doute the current data	
l. Add one day to the current date.	
SELECT DATE_ADD('2021-10-15', interval 1 day);	
m. Add two hours and 5000 minutes to the current date and print the no	ew date
SELECT DATE_ADD(DATE_ADD(NOW(), INTERVAL 2 HOUR), INTERVAL 500 new_date;	O MINOTE) AS
n. Find the floor and ceil values of a floating point number. Also operat	e on the nower log
modulus, round off and truncate functions.	on the perion, tog,
SELECT floor(2.8) as floor;	
SELECT ceil(2.8) as ceil;	
SELECT POWER(3,2) AS POW;	
SELECT LOG(2.81) AS LOG_VAL;	
SELECT MOD(10,5) AS MOD_VAL;	
SELECT ROUND(5.4) AS round_off_value;	
SELECT TRUNCATE(10.8461561, 2) AS truncate_value;	
o. Compare two strings and print the value 'yes' if they are equal, else p	orint 'no'.
o. Compare two strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings and print the value 'yes' if they are equal, else part of the strings are equal.	orint 'no'.
	orint 'no'.

```
p. Simulate the "IF... ELSE" construct in MySQL for a mark and grade setup.
CREATE TABLE students (
 id INT AUTO_INCREMENT PRIMARY KEY,
 name VARCHAR(100),
 marks INT
);
INSERT INTO students (name, marks) VALUES
('Alice', 95),
('Bob', 85),
('Charlie', 75),
('David', 65),
('Eve', 55);
SELECT
 name,
 marks,
 IF(marks >= 90, 'A',
   IF(marks >= 80, 'B',
     IF(marks >= 70, 'C',
       IF(marks >= 60, 'D', 'F')
     )
 ) AS grade
FROM
```

q. Use IFNULL to check whether a mathematical expression gives a NULL value or not.

SELECT IFNULL(1/NULL, 'Expression is NULL') AS result;

students;