	s in MySQL for the following. ery to find the year from date. ar(current date);	
year (current date)		
++   2024  ++		
SQL Query: select if (date format( Output:	ate passed to Query is the date of current_date,'%d-%m-%Y') = current	_date, 'Yes', 'No');
if(date_format(curre	nt_date,'%d-%m-%Y') = current_date	, 'Yes' , 'No')
No	l	
FROM	ne SCHEMA/USER. SUM(DATA_LENGTH + INDEX_LENGTH 1 information_schema.TABLES RE TABLE_SCHEMA = 'mysql';	⊣) AS size
++		
size		
2752512   ++		
d. Display the curre SQL Query: SELECT(0 Output:		
++   (current_time)		
++   15:15:20		
++		
SQL Query: SELECT Doutput:	ieve the next days date.  DATE_ADD(current_date,INTERVAL 1	DAY);
-	+ date,INTERVAL 1 DAY)	
+   2024-07-26 +	I	
Output:	e. ırdate() as database_date;	
++   database_date		
++   2024-07-25		

SQL Query: select database();
Output:
+
database()
++
Vaishnavi_106122072   ++
т
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.
<b>SQL Query</b> : SELECT 2   3 AS bitwise_or,2 ^ 3 AS bitwise_xor,2 & 3 AS bitwise_and;
Output:
Output: ++
Output: ++   bitwise_or   bitwise_xor   bitwise_and
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++  k. Find the difference between two dates and print in terms of the number of days.
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30');
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++  k. Find the difference between two dates and print in terms of the number of days.
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30'); Output: ++
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30'); Output:
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++   **  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30');  Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')   ++
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++   **  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30');  Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')
Output: ++++   bitwise_or   bitwise_xor   bitwise_and   ++++   3   1   2   +++   K. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30'); Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')   +
Output: ++++   bitwise_or   bitwise_xor   bitwise_and   ++++   3   1   2   +++   K. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30'); Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')   +
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++   ***  K. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30');  Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')   ++   1   1   +
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++   **  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59';2007-12-30');  Output: ++   DATEDIFF('2007-12-31 23:59:59';2007-12-30')   ++   1   ++   1    **  L. Add one day to the current date.
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++   ***  k. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30');  Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')   ++   1   1   ++   . Add one day to the current date.  SQL Query: SELECT DATE_ADD(current_date,INTERVAL 1 DAY);
Output:  ++++   bitwise_or   bitwise_xor   bitwise_and    +++   3   1   2    +++   K. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30');  Output:  +
Output: ++   bitwise_or   bitwise_xor   bitwise_and   ++   3   1   2   ++   K. Find the difference between two dates and print in terms of the number of days.  SQL Query: SELECT DATEDIFF('2007-12-31 23:59:59','2007-12-30'); Output: ++   DATEDIFF('2007-12-31 23:59:59','2007-12-30')   ++   1   ++   1  +   1

<ul><li>m. Add two hours and 5000 minutes to the current date and print the new date.</li><li>SQL Query: SELECT DATE_ADD(current_date,INTERVAL '2:5000' HOUR_MINUTE);</li><li>Output:</li></ul>
++   DATE_ADD(current_date,INTERVAL '2:5000' HOUR_MINUTE)
++   2024-07-28 13:20:00
n. 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(4.3), ceil(6.3);  Output: ++   floor(4.3)   ceil(6.3)
++   4  7
++ <b>SQL Query</b> : SELECT POWER(2, 3), LOG10(100); <b>Output</b> :  ++
POWER(2, 3)   LOG10(100)
++   8  2
++ <b>SQL Query</b> : SELECT MOD(10, 3), ROUND(3.14159, 2), TRUNCATE(3.14159, 2); <b>Output</b> :
++   MOD(10, 3)   ROUND(3.14159, 2)   TRUNCATE(3.14159, 2)
++   1  3.14  3.14  ++
o. In the first name of the employee, match the following using regular expressions.  SQL Query: SELECT  -> CASE  -> WHEN 'Nisha' REGEXP '^n' THEN 'Name starts with n'  -> ELSE 'Name does not start with n'  -> END AS result;
Output:
+
++   Name starts with n   ++
<ul> <li>p. Compare two strings and print the value 'yes' if they are equal, else print 'no'.</li> <li>SQL Query: SELECT CASE WHEN 'apple' = 'banana' THEN 'yes' ELSE 'no' END AS result;</li> <li>Output:</li> </ul>
result
++  no

## ${\bf q}.$ Simulate the construct in MySQL for a mark and grade setup.

**SQL Query**: SELECT

- -> 85 AS marks,
- -> CASE
- -> WHEN 85 >= 90 AND 85 <= 100 THEN 'A'
- -> WHEN 85 >= 80 AND 85 < 90 THEN 'B'</p>
- -> WHEN 85 >= 70 AND 85 < 80 THEN 'C'
- -> WHEN 85 >= 60 AND 85 < 70 THEN 'D'
- -> WHEN 85 >= 0 AND 85 < 60 THEN 'F'
- -> 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 (20 / 10, 'Result is NULL') AS result;

## Output:

+----+ | result |

+----+

|2.0000|

+----+