```
a. Write an SQL Query to find the year from date. SQL Query: select
  year(current_date);
Output:
| year(current_date) |
b. Check whether date passed to Query is the date of a given 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) |
+----+
| 15:15:20 |
e. Given a date, retrieve the next days date.
SQL Query: SELECT DATE_ADD(current_date,INTERVAL 1 DAY);
| DATE_ADD(current_date,INTERVAL 1 DAY) |
+----+
2024-07-26
f. Get database date.
SQL Query: select curdate() as database_date;
Output:
| database_date |
2024-07-18
g. Returns the default(current) database name. SQL Query: select database();
```

1. Write SQL queries in MySQL for the following.

Output:			
database()	İ		
MYFIRST_DATAE	BASE		
h. Retrieve th mysql_user_ Output: +	host;	QL user name a	and host name. SQL Query: SELECT USER() AS
mysql_user_h	iost		
+	st		
	ring that tell erver_version;	ls the MySQL s	server version. SQL Query: SELECT VERSION()
mysql_server			
8.0.37-0ubur	_		
SQL Query: SEL Output:		oitwise_or,4 ^	5 AS bitwise_xor,4 & 5 AS bitwise_and;
bitwise_or	bitwise_xor	bitwise_and	ĺ
5   +	1	4	ĺ
k. Find the di SQL Query: Output:	ifference betwe	een two dates FF('2007-12-31	and print in terms of the number of days. 23:59:59','2007-12-30');
DATEDIFF('20	008-11-29 23:59	9:59','2008-11	. <del>-</del> 30')
++   1   ++			
Output:	.ECT_DATE_ADD(c	current_date,I	NTERVAL 1 DAY);
DATE_ADD(current_date,INTERVAL 1 DAY)			
2024-07-19			

m. 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)
| 2024-07-19 18:20:00
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(5.3), ceil(8.7);
Output:
+----+
| floor(8.7) | ceil(8.7) |
+----+
   8 | 9 |
+----+
SQL Query: SELECT POWER(2, 4), LOG10(100);
Output:
+----+
| POWER(2, 4) | LOG10(100) |
+----+
   16 | 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 'navya' REGEXP '^n' THEN 'Name starts with n'
        -> ELSE 'Name
-> END AS result;
                ELSE 'Name does not start with n'
Output:
| 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 'string' = 'integer' THEN 'yes' ELSE 'no' END AS result;

Output:

+----+ | result | +----+ | no |

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' 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

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 |