```
1. Write SQL queries in MySQL for the following.
a. Write an SQL Query to find the year from date.
SQL Query: select year(current_date);
Output:
+----+
| year(current_date) |
               2024
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') |
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);
Output:
| 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
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g. Returns the SQL Query: sel Output:	.ect database()	-	name.
database()	İ		
MYFIRST_DATAE	BASE		
h. Retrieve th SQL Query : SEL Output :	ECT USER() AS		
mysql_user_h	ost		
++ root@localhost			
i. Find the st SQL Query: SEL Output:	.ECT_VERSION()		erver version. er_version;
mysql_server	_version		
8.0.37-0ubur	ntu0.20.04.3		
Output:	.ECT 4 5 AS b	oitwise_or,4 ^	5 AS bitwise_xor,4 & 5 AS bitwise_and;
bitwise_or		bitwise_and	
5	1	4	
			and print in terms of the number of days. :59:59','2007-12-30');
•	008-11-29 23:59	•	·
++ 1 ++			
Output:	ECT DATE_ADD(c	current_date,I	NTERVAL 1 DAY);
DATE_ADD(current_date,INTERVAL 1 DAY)			
++ 2024-07-19			

| Name starts with n |

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); +----+ | POWER(2, 4) | LOG10(100) | +----+ | 16 | 2 | +-----**SQL Query**: SELECT MOD(10, 3), ROUND(3.14159, 2), TRUNCATE(3.14159, 2); ---+-----+ +----| 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 'navya' REGEXP '^n' THEN 'Name starts with n' -> ELSE 'Name does not start with n' -> END AS result; Output: +----+ | result |

+----+ | result |

| 2.0000 |

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