Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA , Batch - 31

DBMS Practical 12

Institute of computer technology
Ganpat university
B.tech. CSE (CBA/BDA/CS)

(2CSE301) DATABASE MANAGEMENT SYSTEM

PRACTICAL 12

Initial Environment for practical :

Problems, Respected Queries and Outputs :

PART A: STRING FUNCTIONS

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DBMS Practical 12

1) Write a query to update the portion of the phone_number in the db_prac11 table, within the phone number the substring '124' will be replaced by '999'.

```
● ● ●   mycli -h haribol64 ~          ↑ 0.0 b/s ↓ 13.6 kb/s   11:56:42 AM                    98 %
                                      mycli -h haribol64 ~

Query OK, 15 rows affected
Time: 0.008s

MariaDB yash@haribol64 in prac_12 > update prac_12 set PHONE_NUMBER = replace(PHONE_NUMBER,'124','999')//
You're about to run a destructive command.
Do you want to proceed? (y/n): y
Your call!
Query OK, 5 rows affected
Time: 0.003s

MariaDB yash@haribol64 in prac_12 > select PHONE_NUMBER from prac_12//
+--------------+
| PHONE_NUMBER |
+--------------+
|              |
| 515.123.4567 |
| 515.123.4568 |
| 590.423.4567 |
| 590.423.4568 |
| 590.423.4569 |
| 590.423.4560 |
| 590.423.5567 |
| 515.999.4569 |
| 515.999.4169 |
| 515.999.4269 |
| 515.999.4369 |
| 515.999.4567 |
| 515.127.4561 |
| 515.127.4562 |
+--------------+

15 rows in set
Time: 0.005s

MariaDB yash@haribol64 in prac_12 > █
```

2) Write a query to get the details of the employees where the length of the first name is greater than or equal to 8.

3) Write a query to append '@example.com' to the email field.

```
MariaDB yash@haribol64 in prac_12 > update prac_12 set EMAIL = concat(EMAIL,'@example.com')//
You're about to run a destructive command.
Do you want to proceed? (y/n): y
Your call!
Query OK, 15 rows affected
Time: 0.006s

MariaDB yash@haribol64 in prac_12 > select EMAIL from prac_12//
+----------------------+
| EMAIL                |
+----------------------+
| @example.com         |
| SKING@example.com    |
| NKOCHHAR@example.com |
| AHUNOLD@example.com  |
| BERNST@example.com   |
| DAUSTIN@example.com  |
| VPATABAL@example.com |
| DLORENTZ@example.com |
| NGREENBE@example.com |
| DFAVIET@example.com  |
| JCHEN@example.com    |
| ISCIARRA@example.com |
| LPOPP@example.com    |
| DRAPHEAL@example.com |
| AKHOO@example.com    |
+----------------------+

15 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_12 >
```

4) Write a query to display all employees first names in upper case.

5) Write a query to extract the last 4 characters of phone numbers.

6) Write a query to display the length of first name for employees where the last name contains character 'c' after 2nd position.

7) Write a query that displays the first name and the length of the first name for all employees whose name starts with the letters 'A', 'J' or 'M'. Give each column an appropriate label. Sort the results by the employees' first names.


```
| 4562        |
+-------------+

15 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_12 > select length(FIRST_NAME) from prac_12 where LAST_NAME like '_c%'//
+--------------------+
| length(FIRST_NAME) |
+--------------------+
| 6                  |
+--------------------+

1 row in set
Time: 0.005s

MariaDB yash@haribol64 in prac_12 > select FIRST_NAME,length(FIRST_NAME) from prac_12 where FIRST_NAME like 'A%' or FIRST_NAME LIKE'J%' or FIRST_NAME LIKE 'M%' order by
                        --> FIRST_NAME//
+------------+--------------------+
| FIRST_NAME | length(FIRST_NAME) |
+------------+--------------------+
| Alexander  | 9                  |
| Alexander  | 9                  |
| John       | 4                  |
+------------+--------------------+

3 rows in set
Time: 0.003s

MariaDB yash@haribol64 in prac_12 >

 (Delimiter [//] will end the line) [F3] Multiline: ON
```

8) Write a query to display the first name and salary for all employees. Format the salary to be 10 characters long, left-padded with the $ symbol. Label the column SALARY.
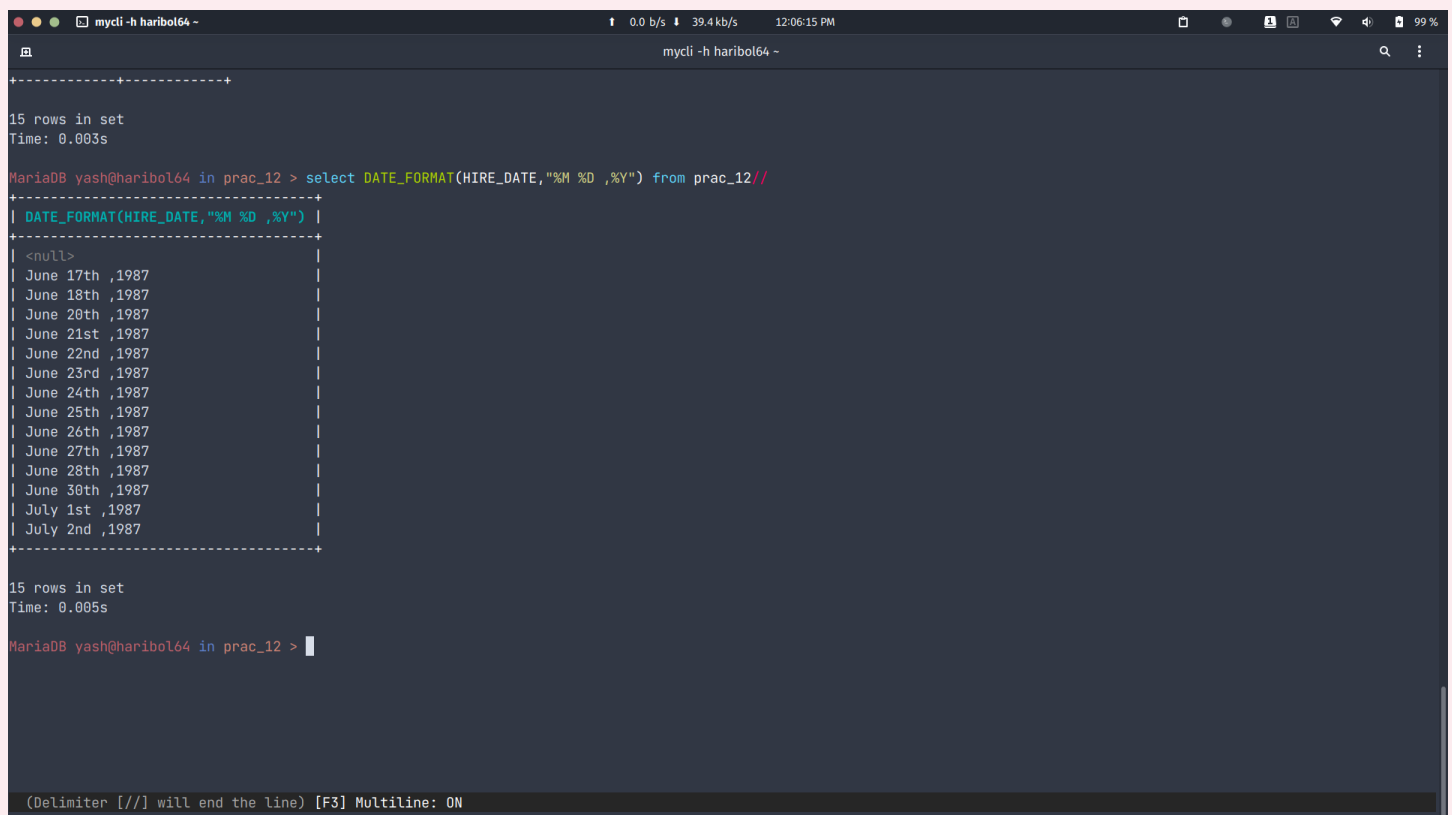
PART B: DATE FUNCTIONS

9) Write a query to get the given date in the following format.
Sample date : 2021-10-18
Output : OCTOBER 18, 2021

10) Write a query to extract the year from the system's current date.

11) Write a query to get the years in which more than 10 employees joined.

```
| June 28th ,1987          |
| June 30th ,1987          |
| July 1st ,1987           |
| July 2nd ,1987           |
+--------------------------+

15 rows in set
Time: 0.005s

MariaDB yash@haribol64 in prac_12 > select EXTRACT(YEAR FROM  NOW())//
+------------------------+
| EXTRACT(YEAR FROM  NOW()) |
+------------------------+
| 2022                   |
+------------------------+

1 row in set
Time: 0.005s

MariaDB yash@haribol64 in prac_12 > select date_format(HIRE_DATE,'%Y') from prac_12 group by date_format(HIRE_DATE,'%Y') having count(*)>=10//
+--------------------------+
| date_format(HIRE_DATE,'%Y') |
+--------------------------+
| 1987                     |
+--------------------------+

1 row in set
Time: 0.003s

MariaDB yash@haribol64 in prac_12 >

 (Delimiter [//] will end the line) [F3] Multiline: ON
```

12) Write a query to get employee ID, last name, and date of first salary of the employees.

13) Write a query to get first name, hire date and experience of the employees.