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DBMS LAB ASSIGNMENT - 8

ASSUMED DATABASE: -

Employees Database:

```
mysql> SELECT * FROM EMPLOYEES;
```

id	first_name	last_name	email	phone	address	hire_date	job_title	salary	manager_id
1	John	Doe	john.doe@example.com	555-1234	123 Main St	2020-01-01	Software Developer	75000.00	NULL
2	Jane	Doe	jane.doe@example.com	555-5678	456 Oak St	2020-02-01	Marketing Manager	90000.00	1
3	Bob	Smith	bob.smith@example.com	555-9876	789 Elm St	2020-03-01	Sales Representative	60000.00	2
4	Mary	Johnson	mary.johnson@example.com	555-4321	321 Pine St	2020-04-01	Customer Service Representative	50000.00	2

```
4 rows in set (0.00 sec)
```

Departments Database:

```
mysql> SELECT * FROM DEPARTMENTS;
```

id	department_name	manager_id	location
1	Software Development	1	New York
2	Marketing	2	San Francisco
3	Sales	3	Chicago
4	Customer Service	4	Dallas

```
4 rows in set (0.00 sec)
```

Q1:

Source Code:

```
SELECT SUBSTRING(address, 5, 7) AS address_substring FROM employees; -- Q1
```

Output:

```
mysql> SELECT SUBSTRING(address, 5, 7) AS address_substring FROM employees; -- Q1
```

address_substring
Main St
Oak St
Elm St
Pine St

```
4 rows in set (0.00 sec)
```

Q2:

Source Code:

```
SELECT DATE_ADD(hire_date, INTERVAL 3 MONTH) AS hire_date_plus_3_months FROM employees; -- Q2
```

Output:

```
mysql> SELECT DATE_ADD(hire_date, INTERVAL 3 MONTH) AS hire_date_plus_3_months FROM employees; -- Q2
+-----+
| hire_date_plus_3_months |
+-----+
| 2020-04-01              |
| 2020-05-01              |
| 2020-06-01              |
| 2020-07-01              |
+-----+
4 rows in set (0.00 sec)
```

Q3:

Source Code:

```
SELECT TRANSLATE('Allens', 'A', 'B') AS replaced_string;-- Q3
```

Output:

```
Bllens
```

Q4:

Source Code:

```
SELECT SUBSTRING('Harini', 2, 3) AS substring_of_harini;-- Q4
```

Output:

```
mysql> SELECT SUBSTRING('Harini', 2, 3)
+-----+
| substring_of_harini |
+-----+
| ari                  |
+-----+
1 row in set (0.00 sec)
```

Q5:

Source Code:

```
SELECT REPLACE('Harini', 'ni', 'sh') AS replaced_string;-- Q5
```

Output:

```
mysql> SELECT REPLACE('Harini', 'ni', 'sh')
+-----+
| replaced_string |
+-----+
| Harish          |
+-----+
1 row in set (0.00 sec)
```

Q6:

Source Code:

```
SELECT LENGTH(department_name) AS department_name_length FROM departments; -- Q6
```

Output:

```
mysql> SELECT LENGTH(department_name)
+-----+
| department_name_length |
+-----+
|                        20 |
|                        9 |
|                        5 |
|                       16 |
+-----+
4 rows in set (0.00 sec)
```

Q7:

Source Code:

```
SELECT DATE_FORMAT(NOW(), '%D %M %Y') AS system_date; -- Q7
```

Output:

```
mysql> SELECT DATE_FORMAT(NOW(), '%D %M %Y')
+-----+
| system_date      |
+-----+
| 21st March 2023 |
+-----+
1 row in set (0.00 sec)
```

Q8:

Source Code:

```
SELECT DATE_ADD(NOW(), INTERVAL 10 MONTH) AS date_after_10_months; -- Q8
```

Output:

```
mysql> SELECT DATE_ADD(NOW(), INTERVAL 10 MONTH)
+-----+
| date_after_10_months |
+-----+
| 2024-01-21 16:39:57 |
+-----+
1 row in set (0.00 sec)
```

Q9:

Source Code:

```
SELECT DATE_ADD(NOW(), INTERVAL (5 - DAYOFWEEK(NOW())) DAY) AS next_friday; -- Q9
```

Output:

```
mysql> SELECT DATE_ADD(NOW(), INTERVAL (5 - DAYOFWEEK(NOW())) DAY)
+-----+
| next_friday |
+-----+
| 2023-03-23 16:40:24 |
+-----+
1 row in set (0.00 sec)
```