

# Examples of DML Operations

## 1. INSERT

Q: Display the query to insert a new employee record into the employees table with first\_name, last\_name, and hire\_date.

```
INSERT INTO employees (first_name, last_name, hire_date) VALUES ('John', 'Doe', '2024-01-15');
```

## 2. SELECT

Q: Display the query to select all records from the employees table.

```
SELECT * FROM employees;
```

## 3. SELECT with WHERE Clause

Q: Display the query to select all employees whose department is 'HR' from the employees table.

```
SELECT * FROM employees WHERE department = 'HR';
```

## 4. UPDATE

Q: Display the query to update the hire\_date of an employee with employee\_id 5 to '2024-03-01' in the employees table.

```
UPDATE employees SET hire_date = '2024-03-01' WHERE employee_id = 5;
```

## 5. DELETE

Q: Display the query to delete an employee with employee\_id 10 from the employees table.

```
DELETE FROM employees WHERE employee_id = 10;
```

## 6. SELECT with ORDER BY

Q: Display the query to select all employees from the employees table and order them by hire\_date in descending order.

```
SELECT * FROM employees ORDER BY hire_date DESC;
```

## 7. SELECT with LIMIT

Q: Display the query to select the first 5 records from the employees table.

```
SELECT * FROM employees LIMIT 5;
```

## 8. SELECT with DISTINCT

Q: Display the query to select unique values from the department column in the employees table.

```
SELECT DISTINCT department FROM employees;
```

## 9. UPDATE with CASE

Q: Display the query to update the department column to 'Sales' for employees with employee\_id greater than 50, and 'Marketing' for employees with employee\_id less than or equal to 50.

```
UPDATE employees SET department = CASE WHEN employee_id > 50 THEN 'Sales'  
ELSE 'Marketing' END;
```

## 10. DELETE with LIMIT

Q: Display the query to delete the first 3 employees from the employees table based on their employee\_id.

```
DELETE FROM employees WHERE employee_id IN (SELECT employee_id FROM  
employees LIMIT 3);
```