### DML (Data Manipulation Language) Questions:(Assignment)

1. **Query to Retrieve Data:** Write a SQL query to retrieve all columns from a table named employees.
2. **Filtering Data:** Write a query to select employees from the employees table who belong to the department with department\_id equal to 5.
3. **Update Statement:** Update the salary of an employee with employee\_id 101 to $60,000.
4. **Insert Statement:** Insert a new employee into the employees table with the following details:
   * employee\_id: 110
   * first\_name: 'John'
   * last\_name: 'Doe'
   * salary: $55,000
   * department\_id: 3
5. **Deletion:** Write a SQL statement to delete all employees from the employees table who have a salary less than $40,000.

2 DML ASSIGNMENT

### Question 1:

Consider a table named students with the following columns:

* student\_id (integer, primary key)
* first\_name (varchar(50))
* last\_name (varchar(50))
* age (integer)
* grade (char(1))

Write SQL queries for the following operations:

1. Retrieve all students from the students table.
2. Select students who are 18 years old or older.
3. Update the grade of a student with student\_id 102 to 'B'.
4. Insert a new student into the table with the following details:
   * student\_id: 110
   * first\_name: 'Emily'
   * last\_name: 'Johnson'
   * age: 20
   * grade: 'A'
5. Delete all students with a grade of 'F'.

### Question 2:

Consider a table named orders with the following columns:

* order\_id (integer, primary key)
* customer\_id (integer)
* order\_date (date)
* total\_amount (decimal(10, 2))

Write SQL queries for the following operations:

1. Retrieve all orders from the orders table.
2. Select orders made by customer with customer\_id 105.
3. Update the total\_amount of an order with order\_id 203 to $150.50.
4. Insert a new order into the table with the following details:
   * order\_id: 250
   * customer\_id: 110
   * order\_date: '2023-01-15'
   * total\_amount: $75.00
5. Delete all orders made before '2022-12-01'.