

## Task: Dynamic Database Operations

Name: Om Ingle Batch: 3rd Year IT Repository: [OmIngle82/JDBC-Assignments](https://github.com/OmIngle82/JDBC-Assignments)

### 1. Class & Method Explanation

- **ParameterizedQueries Class:** Handles user interactions and database operations using dynamic input.
- **Scanner:** Captures user input (ID, Name, City, etc.) at runtime instead of using hardcoded values.
- **PreparedStatement:**
  - Used for executing SQL queries where values are supplied dynamically.
  - **Secure:** It prevents SQL Injection attacks by using placeholders (?).
  - **Efficient:** The database pre-compiles the SQL structure.
- **Workflow:**
  1. **Insert:** Accepts 5 inputs from the user and adds a new record to the table.
  2. **Update:** Accepts an ID and a new Contact number to modify an existing record.
  3. **Search:** Accepts a City name and retrieves all employees residing in that city using `executeQuery()` and `ResultSet`.

### 2. Sample Input Used

- **Insert:** ID: 45, Name: Rohit Sharma, City: Mumbai
- **Update:** ID 45 updated with new contact.
- **Search:** Searched for City Mumbai.

### 3. Console Output Screenshot

