

## Task 7 : Java JDBC – Employee Database App

- **Objective:** Connect to MySQL/PostgreSQL DB and perform CRUD.
- **Tools :** Java, MySQL/PostgreSQL, JDBC driver, VS Code.
- **Deliverables:** Java DB app with connection code.

### Hints/Mini Guide:

1. Set up DB and table.
2. Use Connection, PreparedStatement, ResultSet.
3. Implement Add, View, Update, Delete.

**Outcome:** : Master Java DB connectivity.

### Interview Questions:

1. What is JDBC?
2. What is PreparedStatement?
3. Difference between Statement and PreparedStatement?
4. How do you handle SQL exceptions?
5. How to prevent SQL Injection?
6. What is JDBC DriverManager?
7. How to close connections?
8. What is a ResultSet?
9. What is auto-commit in JDBC?
10. How to connect Java to MySQL?

**Key Concepts:** JDBC, SQL, CRUD, PreparedStatement.

### Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

-  [[Submission Link](#)].

## 📌 Task Submission Guidelines

- 🕒 **Time Window:**

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10 :00 PM

- 🔍 **Self-Research Allowed:**

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

- 🔧 **Debug Yourself:**

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

- 💰 **No Paid Tools:**

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

- 📁 **GitHub Submission:**

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a **short README.md** explaining what you did.

- 📁 **Submit Here:**

After completing the task, paste your GitHub repo link and submit it using the link below:

- 👉 [\[Submission Link\]](#).

Best  
of  
Luck

