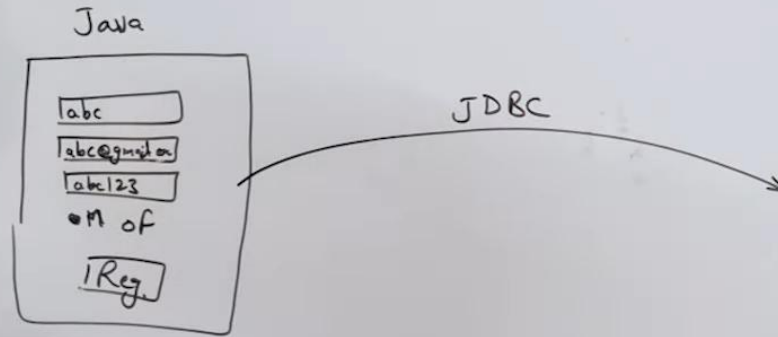
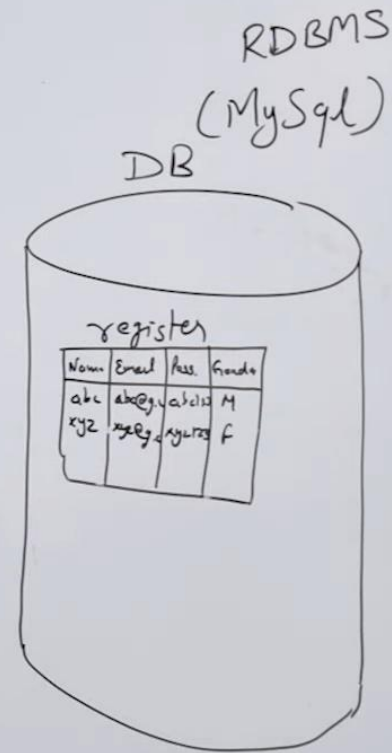


⇒ JDBC:- Java Database Connectivity  
→ JDBC API  
→ Steps for DB connection



JDBC

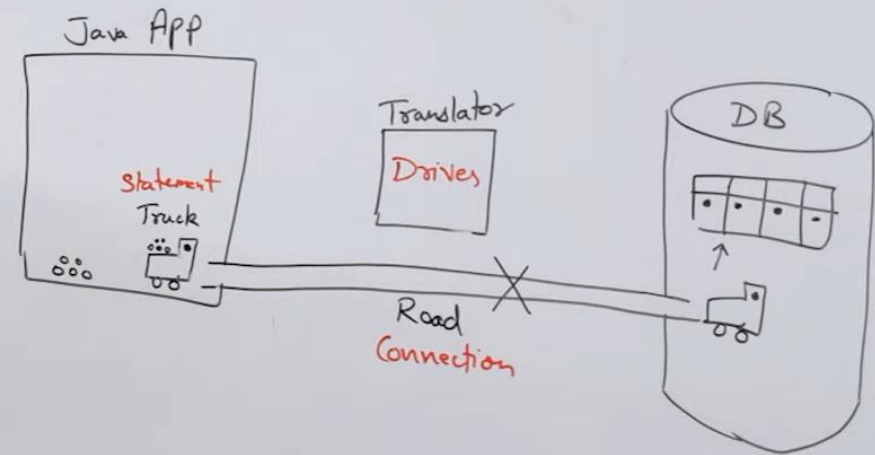


⇒ JDBC:- Java Database Connectivity

→ JDBC API

→ Steps for DB connection

- ① load & register driver
- ② create connection
- ③ create statement
- ④ Execute SQL statements
- ⑤ Process the result
- ⑥ Close the connection



⇒ JDBC:- Java Database Connectivity

→ JDBC API

→ Steps for DB connection

① load & register driver →

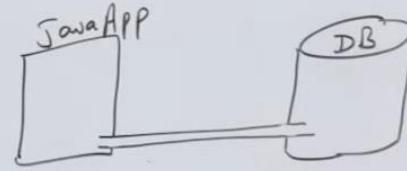
② create connection →

③ create statement

④ Execute SQL statements

⑤ Print the result

⑥ Close the connection



→ download & add  
mysql-connector.jar

```
Class.forName("com.mysql.cj.jdbc.Driver");
```

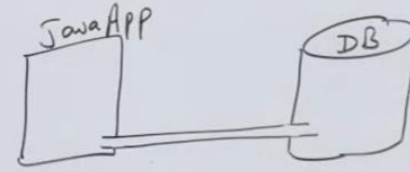
```
Connection con = DriverManager.getConnection("url", "username", "password");
```

url:- jdbc:mysql://localhost:3306/dbname

un:- root

pass:- root

⇒ JDBC:- Java Database Connectivity  
→ JDBC API



→ download & add  
mysql-connector.jar

DB connection

& register driver →

```
Class.forName("com.mysql.cj.jdbc.Driver");
```

create connection →

```
Connection con = DriverManager.getConnection("url", "username", "password");
```

create statement →

```
PreparedStatement ps = con.prepareStatement("sql query");
```

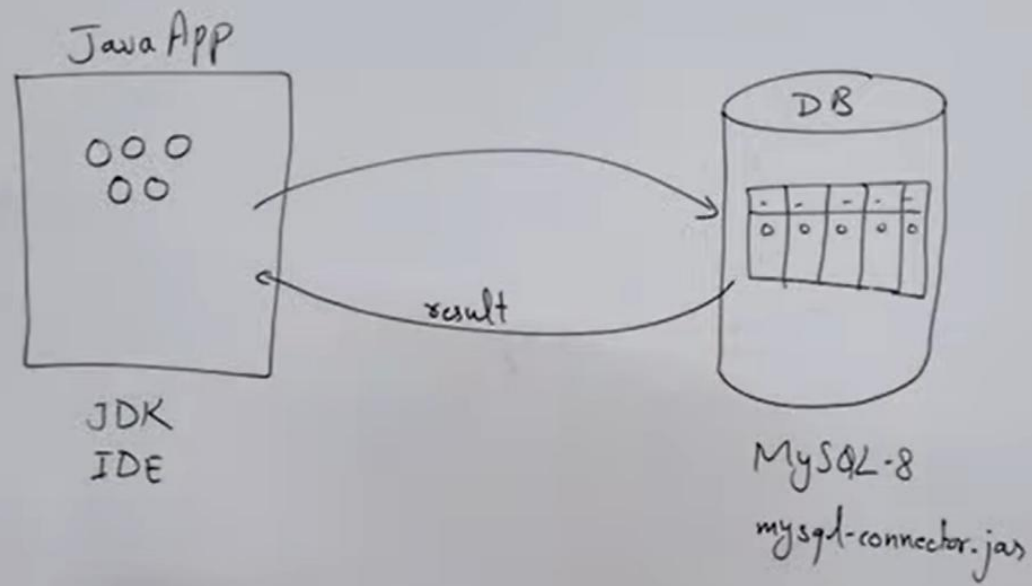
① Execute SQL statements →

Process the result

the connection

- ps.executeQuery(); // select query
- ps.executeUpdate(); // insert, update, delete query





SUBSCRIBE



## ===== Steps to connect Java with Database using JDBC =====

### 1. Load & Register Driver

=> `Class.forName("driver class");`

### 2. Create connection

=> `Connection con = DriverManager.getConnection("url", "username", "password");`

### 3. Create statement

=> `PreparedStatement ps = con.prepareStatement("sql query");`

### 4. Execute SQL statement

=> `ps.executeUpdate();`

### 5. Process the result

### 6. Close the connection

## Java Application

name = deepak  
email = deepak@gmail.com  
pass = deepak123  
gender = male  
city = delhi

JD

database

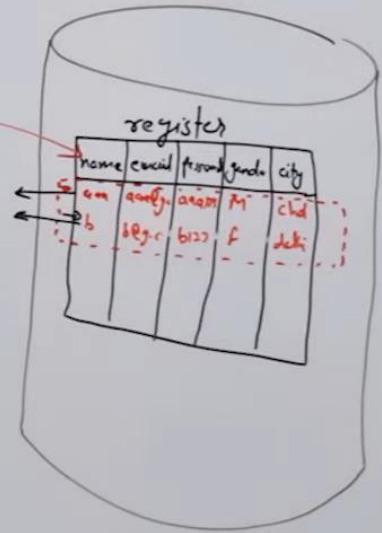
register

name	email	password	gender	city
deepak	deepak@gmail.com	deepak123	male	delhi
abc	abc@gmail.com	abc123	female	pune

⇒

- ① `Class.forName(" --- driverClass/Name ---- ");`
- ② `Connection con = DriverManager.getConnection("url", "username", "password");`
- ③ `PreparedStatement ps = con.prepareStatement('select * from register');`
- ④ `ResultSet rs = ps.executeQuery();`
- ⑤ 

```
while (rs.next())  
{  
    String name1 = rs.getString("name");  
    String email1 = rs.getString("email");  
    // print  
}
```
- ⑥ `con.close();`





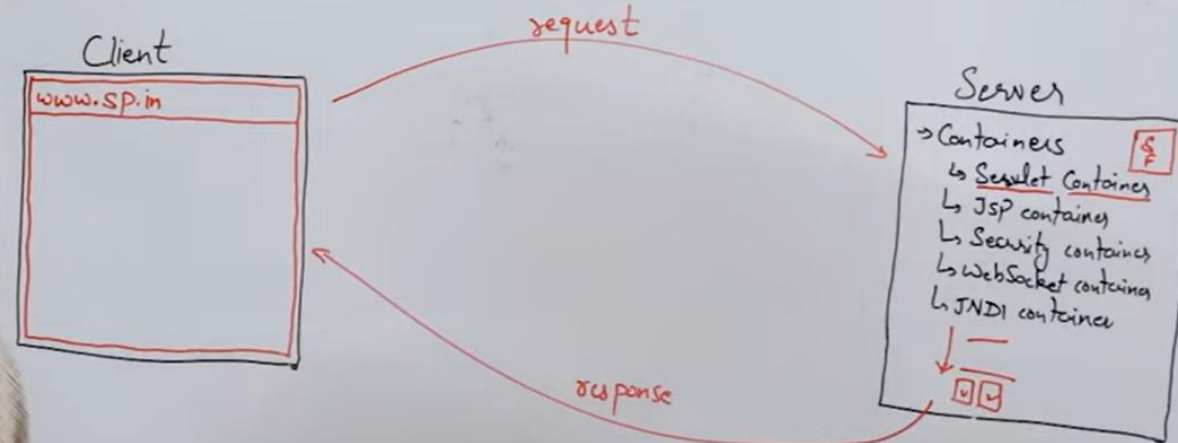


Servlet is a Server-Side Technology which is used to handle the client request, process the request and generate the dynamic response.

- ⇒ Servlet :- server-side technology which is used to
- handle the client request
  - process the request
  - generate dynamic response.

① Web Server → Apache Tomcat  
Glassfish  
Jetty

② Application Server → JBoss  
 - WebLogic  
 - IBM WebSphere



⇒ Server-side technologies

- JSP
- Spring, spring boot
- struts, JSF
- PHP
- Python