JDBC – Java Data Base Connectivity

All the classes & interfaces of java.sql package help us to interact with any database. (RDBMS)

Java is a programming Lang

RDBMS – Client & Server Application

Java Will run in a separate Process

RDBMS (MySQL) run in a separate process

JAVA ---- MySQL (Inter Process Communication) - A process communicating with another process.

Java.sql

Interfaces

1. Connection
2. Driver
3. Statement
4. PreparedStatement
5. CallableStatement
6. ResultSet

Class

1. Date
2. DriverManager
3. TimeStamp
4. Time
5. DriverPropertyInfo

Exception

SQLException

IP address of localhost : 127.0.0.1

Default port number

MySQL = 3306

Oracle = 8080

Postgres = 5432

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| --- | --- | --- | --- |
| **Sl No** | **Name of the Interface** | **Usage** | **Imp Methods** |
| 1 | Statement (I) | To Execute Simple Queries | stmt.executeQuery() |
| 2 | PreparedStatement (I) | To Execute Dynamic Queries | pstmt.executeUpdate() |
| 3 | CallableStatement (I) | To Execute Function/Stored Procedure | Cstmt.call() |

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| --- | --- | --- | --- |
| Sl No | Database | URL | Driver Name |
| 1 | MySQL | jdbc:mysql://localhost:3306/my\_schema | com.mysql.cj.jdbc.Driver |
| 2 | Oracle | Jdbc:oracle:thin:@localhost:1521/hr | oracle.jdbc.driver.OracleDriver |
| 3 | Postgres | Jdbc:postgresql://localhost:5432/db\_name | org.postgresql.Driver |