

JDBC

Java database connectivity: a way to connection java app to the database

hello world jdbc

using property file , simple factory pattern

CURD application : create update read and delete

Getting autogen key

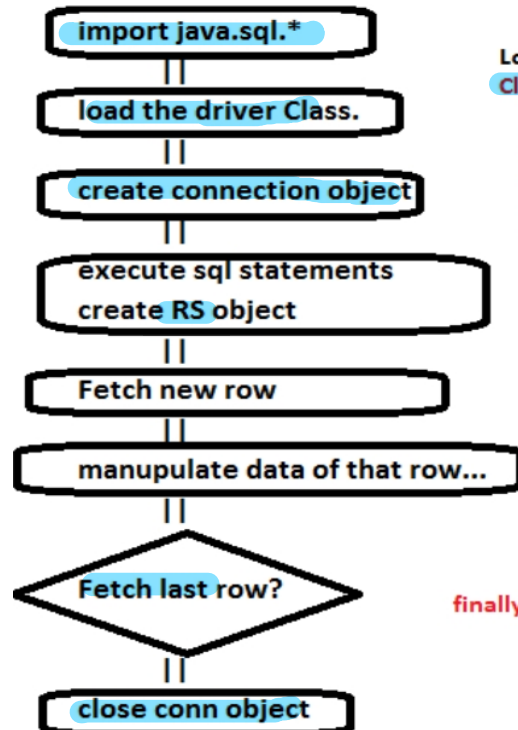
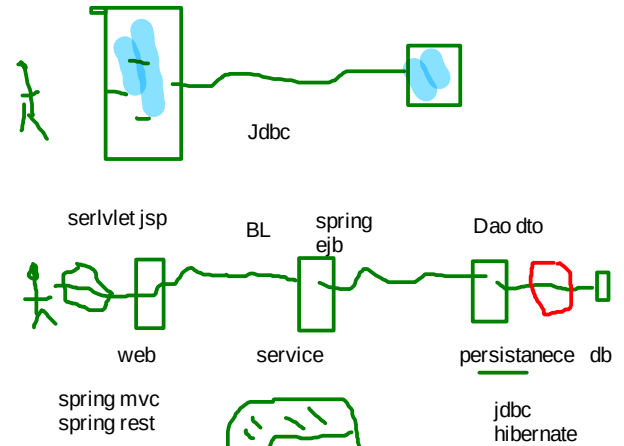
MVC design pattern, 3 tier application

web ----- service ----- persistence layer ----- database

Getting database metadata, resultset metadata

Jdbc Performance : Jdbc batch processing, fetch size

Introduction to transaction mgt ACID, fund transfer



Load the Driver

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

Creating connection object

```
Connection con=DriverManager.getConnection(
    "jdbc:mysql://127.0.0.1:3306/raj","root","root");
```

Execute sql statement

```
stmt=con.createStatement();
rs=stmt.executeQuery("select * from dept");
```

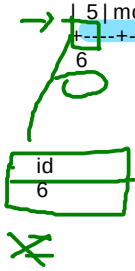
```
while(rs.next())
{
    System.out.println(rs.getString("deptid"));
}
```

finally{

```
if(con!=null){
    try{
        con.close();
    }catch(Exception ex){}
```

}

id	name	price
1	thinkpad laptop	120
2	laptop mouse	1
4	rich dad poor dad	0.2
5	monk who sold farrari	0.2
6	Kb	1



```
ResultSet rs=pstmt.getGeneratedKeys();
if(rs.next()) {
    System.out.println("auto gen key:"+rs.getInt(1));
}
```

accounts(id, name, balance) ACID

1	raj	1000
2	ekta	1000

tx programmer managed tx

```
try {
    connection.setAutoCommit(false);

    connection.commit();
} catch (SQLException ex) {

    try {
        connection.rollback();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
```

tx declarative tx mgt

Spring @Transactional

3 tier arch

