# Simple Query

### 1. Select

```
3 Statement preStat = null;
4 boolean isValidUser = false;
5 String sqlQuery = "Select * from User where userName= "+userName;
6 try {
7 preStat = connection.createStatement();
8 ResultSet resultSet = preStat.executeQuery(sqlQuery);
9 ResultSet resultSet = preStat.executeQuery(sqlQuery);
9 ResultSet resultSet = preStat.executeQuery();

3 PreparedStatement preStat = null;
4 boolean isValidUser = false;
5 String sqlQuery = "Select * from User where userName=? ";
6 try {
7 preStat = connection.createStatement();
8 preStat.executeQuery(sqlQuery);
9 ResultSet resultSet = preStat.executeQuery();
```

## 2. Update

```
statement =
connection.createStatement(

ResultSet.TYPE_SCROLL_INSENSITIVE,
ResultSet.CONCUR_UPDATABLE
);
String sql = "update Book set name = '?', idAuthor =?where id =?";
statement =
connection.prepareStatement(
7 sql,
8 ResultSet.TYPE_SCROLL_INSENSITIVE,
9 ResultSet.CONCUR_UPDATABLE
0);
String sql = "update Book set name = '" +book.getName() +"', idAuthor =" +book.getIdAuthor() +"where id =" +book.getId();
statement.executeUpdate(sql);
12 statement.setObject(1, book.getIdAuthor());
statement.setObject(3, book.getId());
statement.executeUpdate();
```

#### 3. Insert

```
3 Statement preStat = null;
                                                                                                                                                                                                                                                                                       3 PreparedStatement preStat = null;
       String sqlQuery = "Insert into User(id,firstName,lastName,userName,email,passwo
                                                                                                                                                                                                                                                                                              String sqlQuery = "Insert into User(id,firstName,lastName,userName,email,passwor
4 rd, mobileNo)
                                                                                                                                                                                                                                                                                      4 d, mobileNo)
       values("+userInfo.getId()+","+userInfo.getFirstName()+","+userInfo.getLastName()+","+userInfo.getCastName()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPassword()+","+userInfo.getPas
                                                                                                                                                                                                                                                                                              values(?,?,?,?,?,?,?)";
       ()+","+userInfo.getMobileNo()+")"
5 try {
                                                                                                                                                                                                                                                                                     5 try {
6 preStat = connection.createStatement();
                                                                                                                                                                                                                                                                                     6 preStat = connection.prepareStatement(sqlQuery);
7 preStat.executeUpdate(sqlQuery);
                                                                                                                                                                                                                                                                                             preStat.setObject(1, userInfo.getId());
                                                                                                                                                                                                                                                                                     8 preStat.setObject(2, userInfo.getFirstName());
                                                                                                                                                                                                                                                                                     9 preStat.setObject(3, userInfo.getLastName());
                                                                                                                                                                                                                                                                                 10 preStat.setObject(4, userInfo.getUserName());
                                                                                                                                                                                                                                                                                 11 preStat.setObject(5, userInfo.getEmail());
                                                                                                                                                                                                                                                                                 12 preStat.setObject(6, userInfo.getPassword());
                                                                                                                                                                                                                                                                                 13 preStat.setObject(7, userInfo.getMobileNo());
                                                                                                                                                                                                                                                                                  14 preStat.executeUpdate();
```

### 4. Delete

```
3 String SQL = "DELETE FROM COUNTRY WHERE COUNTRY_ID = "+country.getCountry_id();
4 try {
5 Statement p = connection.createStatement();
6 p.execute(SQL);
7 p.execute();
8 String SQL = "DELETE FROM COUNTRY WHERE COUNTRY_ID = ?";
9 PreparedStatement p = connection.prepareStatement(SQL);
9 p.execute();
9 p.execute();
9 p.execute();
```

# **Complex Query**

## 1. Order by

```
4 PreparedStatement stmt = conn.prepareStatement("SELECT
 * FROM message WHERE from_id = "+?+" ORDER BY sent_date ASC")) {
5 stmt.setObject(1, mid);
6 ResultSet rs = stmt.executeOuerv():
```

### 2. Count

```
String query = "SELECT COUNT(*) AS facilityInstances FROM Facility " + " WHERE
6 id<>
    '" + id + "' AND name= '" + name + "'";
7 System.out.println(query);
8 try {
9 Statement stmt = con.createStatement();
10 stmt.setQueryTimeout(5);
11 results = stmt.executeQuery(query);
```

```
String query = "SELECT COUNT(*) AS facilityInstances FROM Facility " + " WHERE i
d<> '?' AND name= '?'";
7 System.out.println(query);
8 try {
9 PreparedStatement stmt = con.prepareStatement(query);
10 stmt.setQueryTimeout(5);
11 stmt.setObject(1,id);
12 stmt.setObject(2,name);
13 results = stmt.executeQuery();
```

### 3. Limit

```
4 String sql = "select * from inception_preference where userId = "+userId+"
  order by id desc limit "+start+", "+count;
5 Statement ps = conn.createStatement();
6 ResultSet rs = ps.executeQuery(sql);
```

```
4 String sql = "select * from inception_preference where userId = ?
order by id desc limit ?, ?";
5 PreparedStatement ps = conn.prepareStatement(sql);
6 ps.setObject(1, userId);
7 ps.setObject(2, start);
8 ps.setObject(3, count);
9 ResultSet rs = ps.executeQuery();
```

### 4. Distinct

# Multiple Queries in Single function

#### 1.

```
Statement s = conn.createStatement();

ResultSet rs = s.executeQuery("SELECT * FROM virtual_slave_node_table WHERE host="" + hostname + "'");

7 if (rs.next()) {
8 conn.close();
9 throw new Exception("Can not remove. Host is being used.");
10 }
11 rs = s.executeQuery("SELECT * FROM virtual_master_node_table WHERE host="" + hostname + "'");

12 if (rs.next()) {
13 conn.close();
14 throw new Exception("Can not remove. Host is being used.");
15 }
16 s.executeUpdate("DELETE FROM virtual_machine_host_table where hostname='" + hostname + "'");
```

```
5 PreparedStatement s = conn.prepareStatement("SELECT
   * FROM Virtual_slave_node_table WHERE host='?'");
6 s.setObject(1,hostname);
7 ResultSet rs = s.executeQuery();
8 if (rs.next()) {
9 conn.close();
10 throw new Exception("Can not remove. Host is being used.");
11 }
12 s = conn.prepareStatement("SELECT * FROM virtual_master_node_table WHERE host='?'");
13 s.setObject(1,hostname);
14 pr = s.executeQuery();
15 if (rs.next()) {
16 conn.close();
17 throw new Exception("Can not remove. Host is being used.");
18 }
19 s = conn.prepareStatement("DELETE FROM virtual_machine_host_table where hostname='?'");
20 s.setObject(1,hostname);
21 s.executeUpdate();
```

```
3 Statement pStatement;
                                                                                                                                       3 PreparedStatement pStatement;
  4 ResultSet rs;
                                                                                                                                       4 ResultSet rs;
  5 String queryString;
                                                                                                                                      5 String queryString;
  6 ArrayList<String> list = new ArrayList<String>();
                                                                                                                                       6 ArrayList<String> list = new ArrayList<String>();
 7 try {
                                                                                                                                      7 try {
 8 queryString = "set search_path to imdb";
9 pStatement = connection.createStatement();
                                                                                                                                     8 queryString = "set search_path to imdb";
9 pStatement = connection.prepareStatement(queryString);
                                                                                                                                    p posterment = connection, pepalestatement(querystring);

palestatement.execute();

querystring = "select distinct name " + "from people, roles " + "where people.p"

reson_id = roles.person_id and name <>
'?'and
pStatement.executeQuery(queryString);
queryString = "select distinct name " + "from people, roles " + "where people.
person_id = roles.person_id and name <>
" + person + "'and
movie_id in" + "(select distinct movie_id " + "from people, roles " + "where n
                                                                                                                                          movie_id in" + "(select distinct movie_id " + "from people, roles " + "where na
                                                                                                                                    me =
'?' AND people.person_id = roles.person_id)";

12 pStatement = connection.prepareStatement(queryString);

13 pStatement.setObject(1,person);
ame =
"" + person + "" AND people.person_id = roles.person_id)";

pStatement = connection.createStatement();

rs = pStatement.executeQuery(queryString);
                                                                                                                                     14 pStatement.setObject(2,person);
                                                                                                                                     15 rs = pStatement.executeQuery();
```