Object Oriented Programming in Java Lab Sheet IV Year /I Part Faculty: CSIT

Lab sheet 3

Objectives:

- 1. CRUD operation
- 2. Row Sets
 - JdbcRowSet
 - CachedRowSet
- 3. Scrollable and Updatable Result sets
- 1. Write a program to insert three records into a table Item which is in the database Shop and contains the columns ItemId, Name, UnitPrice, Units and ExpiryDate.
- 2. Develop a Java application to manage data in an Employees table, including retrieving a list of all employees, updating an employee's salary, and inserting new employee records. Please provide code examples for both connected and disconnected rowsets to perform these tasks.
- 3. Write a java program to connect database College and display all student information (Roll, Name, Address and Program) from Student table.
- 4. Scrollable and Updatable Result sets:

```
rs.absolute(10);
System.out.println("Row No: "+rs.getRow()+ " Name: "+rs.getString("Name"));
rs.previous();
System.out.println("Row No: "+rs.getRow()+ " Name: "+rs.getString("Name"));
rs.relative(-1);
System.out.println("Row No: "+rs.getRow()+ " Name: "+rs.getString("Name"));
} catch (Exception e) {
e.printStackTrace();
}
```

Assignment:

- 4.1 Modify the above program and create a scrollable ResultSet using prepared Statement.
- 4.2 Modify the above program and create an updatable ResultSet using prepared Statement and perform below operations:
 - 1. Insert
 - 2. Update
 - 3. Delete
- 4.3 Modify the above program and create an updatable ResultSet using create Statement and perform below operations:
 - 1. Insert
 - 2. Update
 - 3. Delete