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JDBC_Mini_Project:
JDBC-(JAVA-MYSQL-Mini project)
Create table Student
Insert records
Print table
Update table
Find out highest percentage students
Arrange records in ascending order
Find all the student which belong to same city
Add new column
Modify column datatype
Change the name of table
Delete column
Delete single row
Delete all the records from table without affecting table attributes
Delete entire table
Join two tables student and an institute and print only common record from both the table
Join two tables student and an institute and print only left side table record
Join two tables student and an institute and print only right side table record
Join two tables student and an institute and print all the records from both the tables
Program:
package jdbc_Mini_Project;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class Create_Student {
```

```
public static void main(String[] args) {
               String url="jdbc:mysql://localhost:3306/mydb";
               String user="root";
               String password="Swapna@123";
               String sql="create table student(rollno int,"
                               +"name varchar(50),"
                               +"per int,"
                               +"email varchar(50),"
                               +"city varchar(50))";
               String insertSql="insert into student
values(101,'Spandana',80,'abc@gmail.com','kdp'),"
                               +"(102,'Swapna',85,'def@gmail.com','kdp'),"
                               +"(103,'Jyoshna',90,'ghi@gmail.com','kdp')";
               String updateSql="update student set per=95 where name='Spandana'";
               String highest_per_qry="select * from students where per=(select max(per) from
student)";
               try {
                       Class.forName("com.mysql.cj.jdbc.Driver");
                       Connection con=DriverManager.getConnection(url, user, password);
                       Statement stmt=con.createStatement();
                       stmt.executeUpdate(sql);
                       System.out.println("Student table created.");
                       //insert records
                       stmt.executeUpdate(insertSql);
                       System.out.println("Inserted records");
```

```
ResultSet rs=stmt.executeQuery("select * from student ");
System.out.println("Roll\tName\tPercentage\tEmail\tCity");
while(rs.next()) {
        int roll=rs.getInt("rollno");
        String name=rs.getString("name");
        int per=rs.getInt("per");
        String email=rs.getString("email");
        String city=rs.getString("city");
        System.out.println(roll+" "+name+" "+per+" "+email+" "+city);
}
//update record
stmt.executeUpdate(updateSql);
System.out.println("Updated record");
rs=stmt.executeQuery("select * from student ");
System.out.println("Roll\tName\tPercentage\tEmail\tCity");
while(rs.next()) {
        int roll=rs.getInt("rollno");
        String name=rs.getString("name");
        int per=rs.getInt("per");
        String email=rs.getString("email");
        String city=rs.getString("city");
        System.out.println(roll+" "+name+" "+per+" "+email+" "+city);
}
//find highest percentage student
rs=stmt.executeQuery(highest_per_qry);
System.out.println("Highest percentage student: ");
while(rs.next()) {
```

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String name=rs.getString("name");
                              int per=rs.getInt("per");
                              System.out.println(name+" "+per);
                      }
                      System.out.println("-----");
                      //Arrange records in ascending order
                      System.out.println("Arranging records in ascending order ");
                       rs=stmt.executeQuery("select * from student order by per asc");
                      while(rs.next()) {
                              String name=rs.getString("name");
                              int per=rs.getInt("per");
                              System.out.println(name+" "+per);
                      }
                      System.out.println("-----");
                      //Find all the student which belong to same city
                      System.out.println("same city students: ");
                       rs=stmt.executeQuery("select * from student where city in(select city from
student group by city)");
                       while(rs.next()) {
                              int roll=rs.getInt("rollno");
                              String name=rs.getString("name");
                              int per=rs.getInt("per");
                              String email=rs.getString("email");
                              String city=rs.getString("city");
                              System.out.println(roll+" "+name+" "+per+" "+email+" "+city);
                      }
                      System.out.println("----");
               //Add new column
                       stmt.executeUpdate("alter table student add contact varchar(20)");
```

```
System.out.println("-----");
       //Modify column datatype
       stmt.executeUpdate("alter table student modify contact bigint");
       System.out.println("Modified contact column datatype");
       System.out.println("-----");
       //Change the name of table
       stmt.executeUpdate("rename table student to studentdetails");
       System.out.println("Renamed table student to studentdetails");
       System.out.println("-----");
       //Delete column
       stmt.executeUpdate("alter table studentdetails drop column contact");
       System.out.println("deleted contact column");
       System.out.println("-----");
       //Delete single row
       stmt.executeUpdate("delete from studentdetails where rollno=103");
       System.out.println("deleted 1 row");
       System.out.println("-----");
       //Delete all the records from table without affecting table attributes
       stmt.executeUpdate("truncate table studentdetails");
       System.out.println("deleted all records");
       System.out.println("-----");
       //Delete entire table
       stmt.executeUpdate("drop table studentdetails");
       System.out.println("Dropped studentdetails table");
```

System.out.println("Added column contact to student table");

```
System.out.println("-----");
                        //Join two tables student and an institute and print only common record
from both the table
                        stmt.executeUpdate("create table if not exists student(rollno int primary
key,name varchar(20))");
                        stmt.executeUpdate("create table if not exists institute(rollno int primary
key,course varchar(20))");
                        stmt.executeUpdate("insert into student
values(101, 'Person1'), (102, 'Person2')");
                        stmt.executeUpdate("insert into institute
values(101, 'course1'), (103, 'course2')");
                        System.out.println("student table :");
                        rs=stmt.executeQuery("select * from student");
                        while(rs.next()) {
                                System.out.println(rs.getInt("rollno")+"\t"+rs.getString("name"));
                        }
                        System.out.println("institute table :");
                        rs=stmt.executeQuery("select * from institute");
                        while(rs.next()) {
                                System.out.println(rs.getInt("rollno")+"\t"+rs.getString("course"));
                        }
                        System.out.println("Inner join");
                        rs=stmt.executeQuery("select * from student inner join institute where
student.rollno=institute.rollno");
                        while(rs.next()) {
        System.out.println(rs.getInt("rollno")+"\t"+rs.getString("name")+"\t"+rs.getString("course"));
                        }
```

```
System.out.println("-----");
                       //Join two tables student and an institute and print only left side table
record
                       System.out.println("Left join");
                       rs=stmt.executeQuery("select * from student left join institute on
student.rollno=institute.rollno");
                       while(rs.next()) {
       System.out.println(rs.getInt("rollno")+"\t"+rs.getString("name")+"\t"+rs.getString("course"));
                       }
                       //Join two tables student and an institute and print only right side table
record
                       System.out.println("-----");
                       System.out.println("Right join");
                       rs=stmt.executeQuery("select * from student right join institute on
student.rollno=institute.rollno");
                       while(rs.next()) {
       System.out.println(rs.getInt("rollno")+"\t"+rs.getString("name")+"\t"+rs.getString("course"));
                       }
                       //Join two tables student and an institute and print all the records from both
the tables
                       System.out.println("-----");
                       System.out.println("Full join");
                       rs=stmt.executeQuery("select * from student left join institute on
student.rollno=institute.rollno"
                                       +" union "
                                       +"select * from student right join institute on
student.rollno=institute.rollno");
                       while(rs.next()) {
       System.out.println(rs.getInt("rollno")+"\t"+rs.getString("name")+"\t"+rs.getString("course"));
```

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rs.close();
stmt.close();
con.close();

}catch(ClassNotFoundException e) {
        System.out.println(e);
}catch(SQLException e) {
        System.out.println(e);
}
```

}