***ASSIGNMENT 3***

***NAME:*** *KOLLI LOKESH*

***REG:*** *20BCI0215*

***E-MAIL:*** [***kolli.lokesh2020a@vitstudent.ac.in***](mailto:kolli.lokesh2020a@vitstudent.ac.in)

***VIT VELLORE***

**Implement java assignment for java jdbc using java**

The below given code does the following:

* Creates database of the student with the details such as (name, registernumber, cgpa,age, dayscholar/hosteller)
* Creates a class student with the needed attributes and Uses array of objects to store ‘n’ number of students’ details into the database.
* And it fetchs the following details from the database.

a. List of students whose joined in 2018.

b. List of students whose age is between 18-20

c. List of students with CGPA less than 5.

d. List of students who stay in hostel.

e. List of 2019 batch students who are day scholars.

CODE:-

package jdbc\_student;

import java.sql.\*;

class Student{

String name;

String reg;

float cgpa;

int age;

String day\_hos;

Student(String name,String reg,float cgpa,int age,String day\_hos){

this.name=name;

this.reg=reg;

this.cgpa=cgpa;

this.age=age;

this.day\_hos=day\_hos;

}

}

public class JDBC\_student {

public static void main(String[] args) {

Student[] s=new Student[5];

s[0]=new Student("LOKESH","20BCI0215",(float)8.8,20,"hos");

s[1]=new Student("jaga","20BCI0234",(float)9.0,21,"day");

s[2]=new Student("chaitanya","20BCI0256",(float)8.5,20,"hos");

s[3]=new Student("","20BCI0290",(float)4.9,19,"day");

s[4]=new Student("KALYAN","20BCI0287",(float)7.5,21,"hos");

try{

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

Connection

conn=DriverManager.getConnection("jdbc:mysql://localhost/demo",

"root","Jagan@2001");

Statement st=conn.createStatement();

String query="drop table student;";

st.executeUpdate(query);

query="create table student "+"(name varchar(20),reg varchar(9),"+

"cgpa float,age integer,day\_hos char(3));";

st.executeUpdate(query);

//inserting

for(int i=0;i<5;i++){

String insert="insert into student values

('"+s[i].name+"','"+s[i].reg+"',"+

s[i].cgpa+","+s[i].age+",'"+s[i].day\_hos+"');";

st.executeUpdate(insert);

System.out.println("Student "+i+" added to database

successfully!");

}

//Fetching details from database

//a. List of students whose joined in 2018.

query="select \* from student where reg like '18%';";

ResultSet rs=st.executeQuery(query);

//rs.next();

System.out.println("\nStudnets joined in 2018: ");

while(rs.next())

System.out.println(rs.getString(1)+","+rs.getString(2)+","+rs.getFloat(3)+","+rs.getInt(4)+","+rs.getString(5));

//b. List of students whose age is between 18-20.

query="select \* from student where age between 18 and 20;";

rs=st.executeQuery(query);

System.out.println("\nStudnets whose age b/w 18-20:");

while(rs.next())

System.out.println(rs.getString(1)+","+rs.getString(2)+","+rs.getFloat(3)+","+rs.getInt(4)+","+rs.getString(5));

//c. List of students with CGPA less than 5.

query="select \* from student where cgpa<5.0;";

rs=st.executeQuery(query);

System.out.println("\nStudnets whose cgpa less than 5.0:");

while(rs.next())

System.out.println(rs.getString(1)+","+rs.getString(2)+","+rs.getFloat(3)+","+rs.getInt(4)+","+rs.getString(5));

//d. List of students who stay in hostel.

query="select \* from student where day\_hos='hos';";

rs=st.executeQuery(query);

System.out.println("\nStudnets who stay in hostel:");

while(rs.next())

System.out.println(rs.getString(1)+","+rs.getString(2)+","+rs.getFloat(3)+","+rs.getInt(4)+","+rs.getString(5));

//e. List of 2019 batch students who are dayscholars.

query="select \* from student where reg like '19%' and

day\_hos='day';";

rs=st.executeQuery(query);

System.out.println("\nStudnets of 2019 batch who are day scholars:");

while(rs.next())

System.out.println(rs.getString(1)+","+rs.getString(2)+","+rs.getFloat(3)+","+rs.getInt(4)+","+rs.getString(5));

conn.close();

}

catch(Exception e){

System.out.println(e);

}

}

}

Output:

