Assignment 5

i) Insert 5 records (code + output + workbench image)

Insert 5 records into Student buy accepting values from each column from the user After every record insertion we should confirm from the customer do you want to continue? If he says yes, go on and insert a new record, otherwise exit.

assignment.java 1 ×

JDBCConnection > JDBCConnection > src > domain > assignment.java > assignment > main(String[])

```java
package domain;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;

public class assignment {
    Run | Debug
    public static void main(String[] args) {
        String urlMySQL = "jdbc:mysql://localhost:3306/hr";
        String username = "root";
        String password = "12345";

        Scanner sc = new Scanner(System.in);
        try {
            Connection conSQL = DriverManager.getConnection(urlMySQL, username, password);
            System.out.println(x: "Connection successful");

            int i = 0;
            while (i < 5) {
                System.out.println(x: "Record to be inserted: ");
                System.out.println(x: "Enter name");
                String name1 = sc.next();
                System.out.println(x: "Enter age");
                int age1 = sc.nextInt();
                System.out.print(s: "");
                System.out.println(x: "Enter address");
                String address1 = sc.next();
                System.out.println(x: "Enter course (301/302/303)");
                int course1 = sc.nextInt();
                String query = "insert into student(name,age,address,course) values('" + name1 + "'," + age1 + ",'"
                        + address1 + "'," + course1 + ")";
                System.out.println(x: "Are you sure you want to insert record (yes/no)");
                String ans = sc.next();
                if (ans.equals(anObject: "yes")) {
                    Statement stmt = conSQL.createStatement();
                    int x = stmt.executeUpdate(query);
                    System.out.println(x: "inserted ");
                } else {
                    System.out.println(x: "Insertion denied!");
                }
                i++;
```

assignment.java 1 ×

JDBCConnection > JDBCConnection > src > domain > assignment.java > assignment > main(String[])

```
40                  } else {
41                      System.out.println(x: "Insertion denied!");
42                  }
43                  i++;
44              }
45          } catch (SQLException e) {
46              System.out.println(e.getMessage());
47          }
48          sc.close();
49      }
50  }
```

PROBLEMS 23 OUTPUT DEBUG CONSOLE TERMINAL

```
Enter name
n3
Enter age
55
Enter address
Ranchi
Enter course (301/302/303)
301
Are you sure you want to insert record (yes/no)
yes
inserted
Record to be inserted:
Enter name
n4
Enter age
33
Enter address
panaji
Enter course (301/302/303)
303
Are you sure you want to insert record (yes/no)
yes
inserted
Record to be inserted:
Enter name
n5
Enter age
37
Enter address
daman
Enter course (301/302/303)
301
Are you sure you want to insert record (yes/no)
yes
inserted
PS C:\Users\JHANVIM\Desktop\javaNRI>
```

```
1 •  select *from student;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	name	age	address	course
1101	sachin	43	Mumbai	301
1102	virat	43	Mumbai	302
1103	rohit	30	Mumbai	301
1104	rahul	31	Bengaluru	303
1105	virat	43	Mumbai	302
1107	opus	41	Mumbai	302
1108	opus	41	Mumbai	302
1109	desk	45	west	301
1110	n1	15	chennai	302
1111	n2	45	pune	303
1112	n3	55	Ranchi	301
1113	n4	33	panaji	303
1114	n5	37	daman	301
NULL	NULL	NULL	NULL	NULL

student 4

Output

Action Output

#	Time	Action
1	09:04:03	select *from student LIMIT 0, 1000
2	09:04:59	elect *from student
3	09:05:02	select *from student LIMIT 0, 1000
4	10:07:50	select *from student LIMIT 0, 1000
5	13:16:05	select *from student LIMIT 0, 1000

ii) Update a record in the table by accepting
Column to be update (name)
On the basis of what column (id)

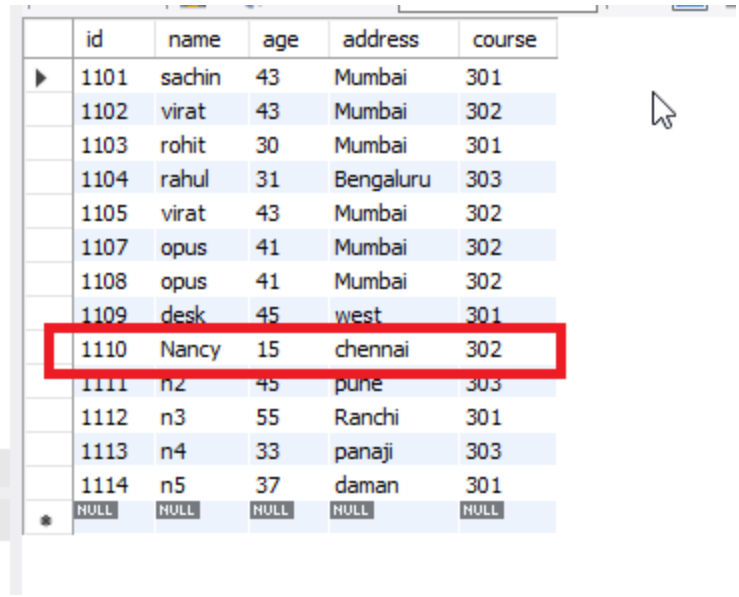
JDBCConnection > JDBCConnection > src > domain > assignment.java > assignment > main(String[])

```
72          System.out.println(x: "Connection successful");
73
74          System.out.println(x: "Enter the column you want to update (name/age/id/address/course");
75          String column_name=sc.next();
76
77          String val1, val2;
78          System.out.println(x: "Enter the value to be set");
79          val1=sc.next();
80
81          //if(column_name.equals("name") || column_name.equals("address"))
82          System.out.println(x: "on the basis of (name/age/id/address/course");
83          String col_id=sc.next();
84
85          System.out.println(x: "Enter the existing value to be changed");
86          val2=sc.next();
87
88          String query = "update student set "+column_name+ "='"+val1+"' where "+col_id+"='"+val2+"';";
89          System.out.println(query);
90          Statement stmt = conSQL.createStatement();
91          int x = stmt.executeUpdate(query);
92          System.out.println(x: "inserted ");
93      } catch (SQLException e) {
94          System.out.println(e.getMessage());
95      }
```

PROBLEMS 24 OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\JHANVIM\Desktop\javaNRI>  c:; cd 'c:\Users
t'
Connection successful
Enter the column you want to update (name/age/id/addre
name
Enter the value to be set
Nancy
on the basis of (name/age/id/address/course
name
Enter the existing value to be changed
n1
update student set name=Nancy where name=n1;
Unknown column 'n1' in 'where clause'
/course
name
Enter the value to be set
Nancy
on the basis of (name/age/id/address/course
name
Enter the existing value to be changed
n1
update student set name='Nancy' where name='n1';
inserted
PS C:\Users\JHANVIM\Desktop\javaNRI>
```

powershell
Run: Test
Run: assignment



id	name	age	address	course
1101	sachin	43	Mumbai	301
1102	virat	43	Mumbai	302
1103	rohit	30	Mumbai	301
1104	rahul	31	Bengaluru	303
1105	virat	43	Mumbai	302
1107	opus	41	Mumbai	302
1108	opus	41	Mumbai	302
1109	desk	45	west	301
1110	Nancy	15	chennai	302
1111	n2	45	pune	303
1112	n3	55	Ranchi	301
1113	n4	33	panaji	303
1114	n5	37	daman	301
NULL	NULL	NULL	NULL	NULL

Create a table Professor Create a table Subject Create a 1: many relation between subjects. Creates many: 1 relation between subject: course (Professor teaches a course)

```
create table studentdata(id int AUTO_INCREMENT primary key,
name varchar(50),
courseid int,
subjectname varchar(50));

insert into studentdata(id,name,courseid,subjectname) values (1,'sheldon',101,'coding');
insert into studentdata(name,courseid,subjectname) values ('rajesh',102,'finance');
insert into studentdata(name,courseid,subjectname) values ('penny',103,'history');
insert into studentdata(name,courseid,subjectname) values ('leonard',102,'finance');
insert into studentdata(name,courseid,subjectname) values ('sheldon',102,'finance');

select *from studentdata;
select *from professor;
select *from coursedata;
select *from subject;

create table professor(pname varchar(50), courseid int references studentdata(courseid));
insert into professor(pname,courseid) values('prof1',101);
insert into professor(pname,courseid) values('prof2',102);
insert into professor(pname,courseid) values('prof3',103);
insert into professor(pname,courseid) values('prof4',102);
insert into professor(pname,courseid) values('prof5',103);

create table coursedata(coursename varchar(50), courseid int references studentdata(courseid));
insert into coursedata(coursename,courseid) values('btech',101);
insert into coursedata(coursename,courseid) values('bba',102);
insert into coursedata(coursename,courseid) values('arts',103);

create table subject(subjectname varchar(50) references studentdata(subjectname), courseid int references studentdata(courseid));
insert into subject(subjectname,courseid) values('webdev',101);
insert into subject(subjectname,courseid) values('finance',102);
insert into subject(subjectname,courseid) values('accounts',102);
insert into subject(subjectname,courseid) values('history',103);
insert into subject(subjectname,courseid) values('geography',103);
insert into subject(subjectname,courseid) values('coding',101);
```

Studentdata table:

```
12 •  select *from studentdata;
13 •  select *from professor;
14 •  select *from coursedata;
15 •  select *from subject;
```

Result Grid | Filter Rows: | Ed

id	name	courseid	subjectname
1	sheldon	101	coding
2	rajesh	102	finance
3	penny	103	history
4	leonard	102	finance
5	sheldon	102	finance
NULL	NULL	NULL	NULL

Professor table:

```
12 •  select *from studentdata;
13 •  select *from professor;
14 •  select *from coursedata;
15 •  select *from subject;
```

Result Grid | Filter Rows:

pname	courseid
prof1	101
prof2	102
prof3	103
prof4	102
prof5	103

Coursedata table:

```
13 •  select *from professor;
14 •  select *from coursedata;
15 •  select *from subject;
```

Result Grid | Filter Rows:

coursename	courseid
btech	101
bba	102
arts	103

Subject table:

```
15  select *from subject;
16
17  create table professor(pname varch
18  insert into professor(pname,course
```

Result Grid | Filter Rows:

subjectname	courseid
webdev	101
finance	102
accounts	102
history	103
geography	103
coding	101

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