

Weekly coding assignment

1Q)

```
package com.codingassignment3;

import java.util.Scanner;

public class Library {
    String id;
    String name;
    String author;
    public Library(String id, String name, String author) {
        super();
        this.id = id;
        this.name = name;
        this.author = author;
    }
    public Library() {}
    @Override
    public String toString() {
        return "Library [id=" + id + ", name=" + name + ", author=" + author + "]";
    }
    public String getId() {
        return id;
    }
    public void setId(String id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getAuthor() {
        return author;
    }
    public void setAuthor(String author) {
        this.author = author;
    }
}

import java.util.Scanner;

public class BusinessLogic {
    Scanner sc = new Scanner(System.in);
    public ArrayList<Library> addBooks() {
        Library p = new Library("112", "The Christmas Pig", "JK Rowling");
        Library p1 = new Library("223", "Whereabouts", "Amar");
        Library p2 = new Library("334", "Queen of Fire", "Devika Rangachari");
        Library p3 = new Library("445", "Listen to Your Heart: The London Adventure", "Ruskin Bond");
        Library p4 = new Library("556", "A Place Called Home", "Preeti Shenoy");
        ArrayList<Library> a = new ArrayList<Library>();
        a.add(p);
        a.add(p1);
        a.add(p2);
        a.add(p3);
        a.add(p4);
        return a;
    }
    void displayBooks(ArrayList<Library> b) {
        System.out.println("List of Books ");
        for (Library s : b) {
            System.out.println(s);
        }
    }
    void updateBooks(ArrayList<Library> p) {
        System.out.println("Enter the id you want to update ");
        String id = sc.next();
        System.out.println("Enter the updated id, book name and author name ");
        for (Library e : p) {
            if (e.getId().equals(id)) {
                e.setId(sc.next());
                e.setName(sc.next());
                e.setAuthor(sc.next());
                System.out.println(e);
            }
        }
    }
    void deleteBook(ArrayList<Library> p) {
        System.out.println("Enter the id of the book you want to delete ");
        String i = sc.next();
        System.out.println(":::::List of Books data after Deletion:::: ");
        for (Library k : p) {
            if (k.getId().equals(i)) {
                p.remove(k);
            }
        }
    }
}
```

```
package com.codingassignment3;

import java.util.ArrayList;

import java.util.Scanner;

public class Library {
    // TODO Auto-generated method stub
    public static void main(String[] args) {
        BusinessLogic b = new BusinessLogic();
        ArrayList<Library> z = b.addBooks();
        b.displayBooks(z);
        b.updateBooks(z);
        b.deleteBook(z);
    }
}

<terminated> tester [Java Application] C:\Users\amarpraveena\p2\pool\plugins\org.eclipse.justi.openjdk hotspot\jre\full\
List of Books
Library [id=112, name=The Christmas Pig, author=JK Rowling]
Library [id=223, name=Whereabouts, author=Amar]
Library [id=334, name=Queen of Fire, author=Devika Rangachari]
Library [id=445, name=Listen to Your Heart: The London Adventure, author=Ruskin Bond]
Library [id=556, name=A Place Called Home, author=Preeti Shenoy]

Enter the book id you want to update
223
Enter the updated id, book name and author name
665
Monsoon
Sahitya
Library [id=665, name=Monsoon, author=Sahitya]

Enter the id of the book you want to delete
445

:::::List of Books data after Deletion::::
Library [id=112, name=The Christmas Pig, author=JK Rowling]
Library [id=665, name=Monsoon, author=Sahitya]
Library [id=334, name=Queen of Fire, author=Devika Rangachari]
Library [id=556, name=A Place Called Home, author=Preeti Shenoy]
```

2Q)

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- codingassignment
 - Tables
 - Views
 - Stored Procedures
 - Functions
- prodapt
 - Tables
 - Views
 - Stored Procedures
 - Functions
- skila
- sys
- world

Query 1: x

```
1 use codingassignment;
2 create table Employees(
3   Id int primary key,
4   EName text,
5   Age int,
6   Salary int,
7   Designation text );
8
9 insert Employees values(7582,"Amar",21,500000,"Software Engineer");
10 select * from Employees
```

Limit to 1000 rows

Administration Schemas

Information

No object selected

Object Info Session

Employees 1 x

Result Grid

	Id	EName	Age	Salary	Designation
▶	7582	Amar	21	500000	Software Engineer

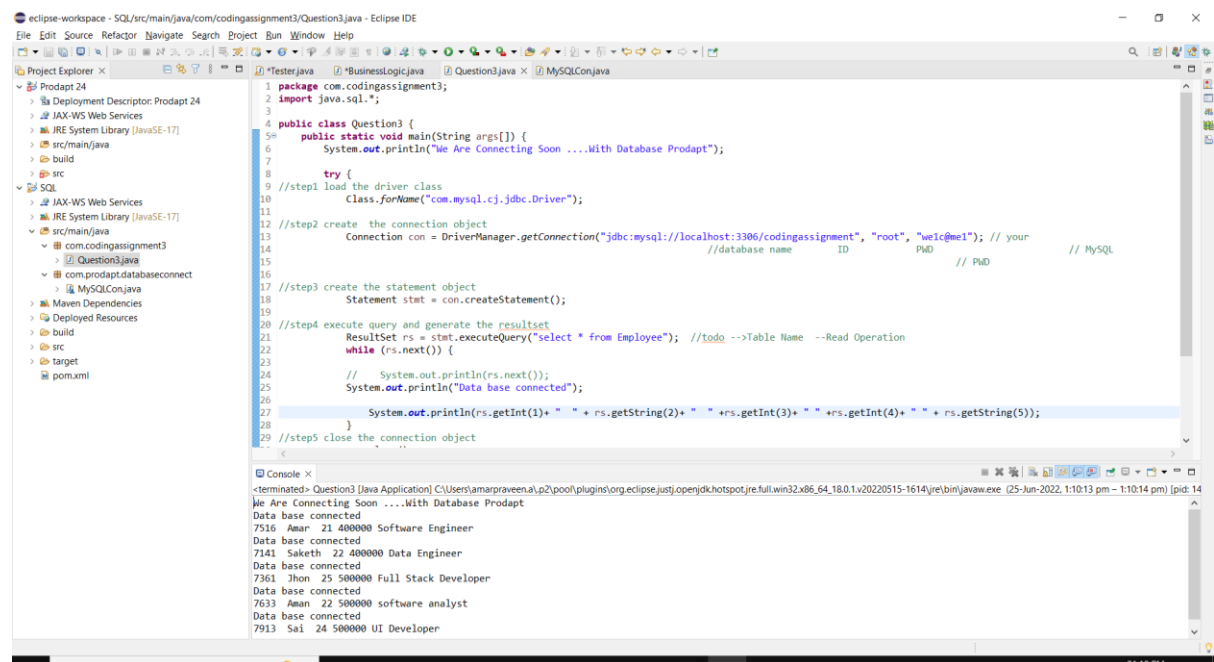
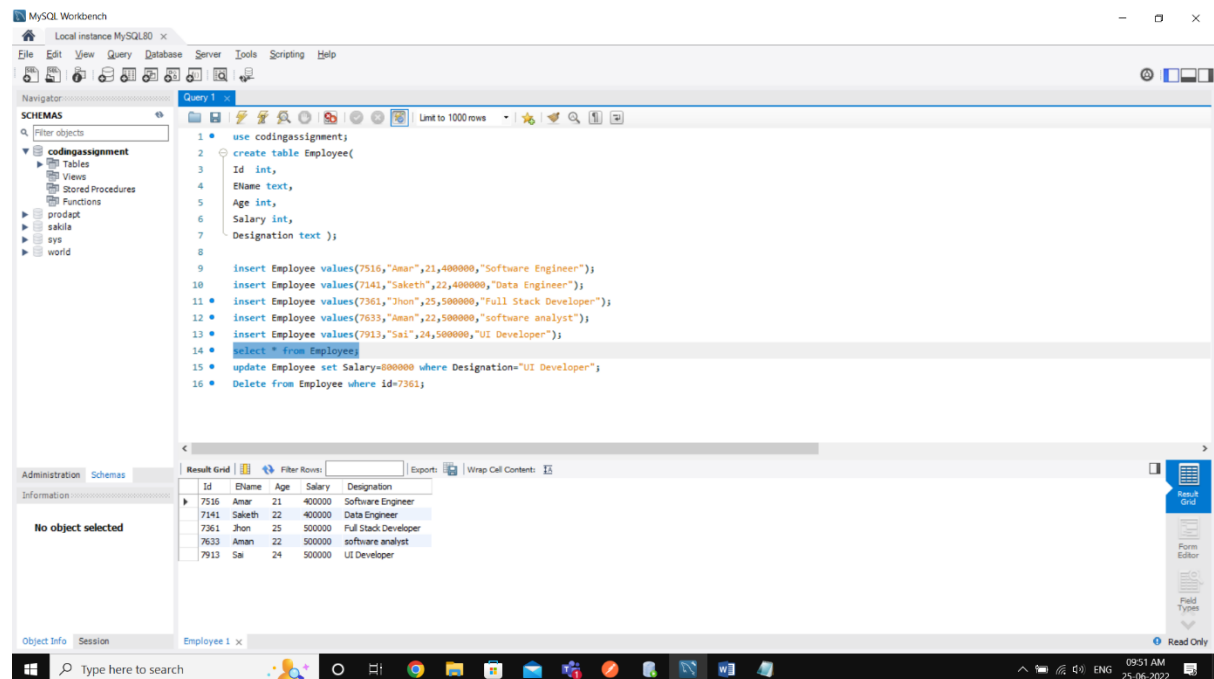
Filter Rows: Edit Export/Import Wrap Cell Contents

Result Grid Form Editor Field Types

Type here to search

09:50 AM 25-06-2022

3Q)



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

codingassignment

Tables

Views

Stored Procedures

Functions

prodapt

sakila

sys

world

Query 1

```

1 use codingassignment;
2 create table Employee(
3     Id int,
4     EName text,
5     Age int,
6     Salary int,
7     Designation text );
8
9 insert Employee values(7516,"Amar",21,400000,"Software Engineer");
10 insert Employee values(7141,"Saketh",22,400000,"Data Engineer");
11 insert Employee values(7361,"Jhon",25,500000,"Full Stack Developer");
12 insert Employee values(7633,"Aman",22,500000,"software analyst");
13 insert Employee values(7913,"Sai",24,800000,"UI Developer");
14 select * from Employee;
15 update Employee set Salary=800000 where Designation="UI Developer";
16 Delete from Employee where id=7361;

```

Result Grid

ID	EName	Age	Salary	Designation
7516	Amar	21	400000	Software Engineer
7141	Saketh	22	400000	Data Engineer
7633	Aman	22	500000	software analyst
7913	Sai	24	800000	UI Developer

Administration Schemas Information

No object selected

Employee 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	09:52:01	Delete from Employee where id=7361	1 row(s) affected	0.015 sec
11	09:52:04	select * from Employee LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Type here to search

09:52 AM 25-06-2022

eclipse-workspace - SQL/src/main/java/com/codingassignment3/Question3.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

Prodapt 24

JAX-WS Web Services

JRE System Library [JavaSE-17]

src/main/java

build

src

SQL

JAX-WS Web Services

JRE System Library [JavaSE-17]

src/main/java

com.codingassignment3

Question3.java

com.prodapt.databaseconnect

MySQLConJava

Maven Dependencies

Deployed Resources

build

src

target

pom.xml

Question3.java

```

1 package com.codingassignment3;
2 import java.sql.*;
3
4 public class Question3 {
5     public static void main(String args[]) {
6         System.out.println("We Are Connecting Soon ....With Database Prodapt");
7
8         try {
9             //step1 load the driver class
10            Class.forName("com.mysql.cj.jdbc.Driver");
11
12            //step2 create the connection object
13            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/codingassignment", "root", "welc@me1"); // your
14                                                                    //database name ID PWD // PWD // MySQL
15
16            //step3 create the statement object
17            Statement stmt = con.createStatement();
18
19            //step4 execute query and generate the resultSet
20            ResultSet rs = stmt.executeQuery("select * from Employee"); //todo -->Table Name --Read Operation
21            while (rs.next()) {
22                // System.out.println(rs.next());
23                System.out.println("Data base connected");
24
25                System.out.println(rs.getInt(1)+ " " + rs.getString(2)+ " " + rs.getInt(3)+ " " + rs.getInt(4)+ " " + rs.getString(5));
26            }
27            //step5 close the connection object
28        }
29    }

```

Console

terminated Question3 [Java Application] C:\Users\amarpraveen\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.18.0.1.v20220515-1614\jre\bin\javaw.exe (25-Jun-2022, 1:10:50 pm - 1:10:52 pm) [pid: 15]

We Are Connecting SoonWith Database Prodapt

Data base connected

7516 Amar 21 400000 Software Engineer

Data base connected

7141 Saketh 22 400000 Data Engineer

Data base connected

7633 Aman 22 500000 software analyst

Data base connected

7913 Sai 24 800000 UI Developer

01:10 PM