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**MSc in Electronic and Computer Technology**

**Web Application Development (EE417)**

**Name: Poreddy Vamshidhar Reddy**

**Student Id: 20216614**

**Email:** [**vamshidhar.poreddy2@mail.dcu.ie**](mailto:vamshidhar.poreddy2@mail.dcu.ie)

**Assignment 4**

**RDBM and JDBC**

**Relational Database and JDBC:**

**Introduction:**

In this assignment I have created a database for my existing web application and connected it using java data base connectivity. At first, I have created the database using Mysql server on my local machine then created and updated the tables using SQL queries. But if we run it on a different machine, I am not sure if it works as intended. So, I moved my database to the cloud, using AWS for this purpose. I have created a database instance on AWS using RDS services and then connected it to the Mysql workbench. Through mysql I have been able to make changes to the database in AWS and created tables for my web application. In the following sections the data base used for my web application is in AWS and a warfile which is enclosed in assignment zip can be directly used by deploying it on the tomcat server of the respective machine.

**1. SQL to create tables:**

I have used the cloud data base to store two tables, one is the customer data table which consists of account details during the account registration and the other one consists of data with customer queries captured from contact.html page. To start I have used mysql workbench to connect to the data base in AWS which is named as ‘database-1’. After the connection is successful I have created a schema with name ‘mydatabase’, through msql workbench two tables have been created with names ‘customers’ and ‘queries’. I have used DDL for the tables creation and the sql code for creating two tables are as below.

CREATE TABLE `mydatabase`.`customers` (

FIRSTNAME VARCHAR(30) NOT NULL,

LASTNAME VARCHAR(30) NOT NULL,

EMAIL VARCHAR(80),

PASS VARCHAR(20),

GENDER VARCHAR(20),

DOB VARCHAR(15),

ADDRESS VARCHAR(30),

PHONE VARCHAR(25),

CARD VARCHAR(5),

PRIMARY KEY (EMAIL)

);

CREATE TABLE `mydatabase`.`queries` (

FULLNAME VARCHAR(30) NOT NULL,

EMAIL VARCHAR(80),

QUERYTYPE VARCHAR(30) DEFAULT 'Delivery',

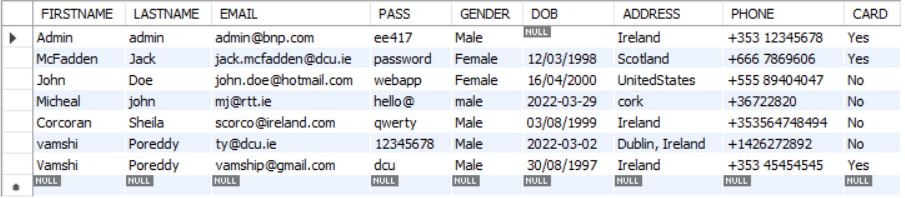
DETAILS VARCHAR(25)

);

Now the created tables are in cloud database, so any changes made to the table will reflect in the cloud. The columns in the tables are made be keeping in mind of the web application, refer to the register.html and contact.html to know more about the created columns. In customers table email is made as the primary key, keeping in mind that no user must have same email id for account creation.

After the tables have been created I have used SQL queries such as insert, delete, update and select to make changes to the tables. Initially tables have been created along with 5 insert queries with random values in each table. After insertion I have used some sql queries to make changes to them. I have included the SQL file along with this report which consists of the tables creation for both tables and all the SQL queries performed on them. Please note that these queries were performed individually one at a time and the final data will not be same as when the table was created. Below are some of the queries and advanced queried used along with the output in mysql work bench.

**select \* from customers**



**select firstname from customers**

**where address='ireland';**

![Graphical user interface, application, table

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oWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APb9M05dQjnmnuboMLiRQEnYAAMQOAau/wDCPwf8/V5/4Ev/AI0nh7/jzuP+vmX/ANDNa1AGV/wj8H/P1ef+BL/40f8ACPwf8/V5/wCBL/41q0UAc9pejpd6XDPNd3hdwScXDDv9auf8I/B/z9Xn/gS/+NS6D/yA7b/dP8zXnHxCuNTuPGhgk0qW80yw05rpfJ1H7OysGH7zpyRkjacg0X1sO2h6F/wj8H/P1ef+BL/40f8ACPwf8/V5/wCBL/41y9n8RHGlX92dGuDp+kxfv7p5wWYiNXGF28/e5NVdV8c67d+CZdU03SFt5PMgMEkV8kiSo7DkNtx7Y96f/A/HYR2X/CPwf8/V5/4Ev/jR/wAI/B/z9Xn/AIEv/jXLP8RdUhXUHk8LSeXpbKL5xeqRGCgclfl+fAPQUa78VLXQNcgsru2tfJmVG3nUFEwDdP3W3J/OlvbzDpc6n/hH4P8An6vP/Al/8aP+Efg/5+rz/wACX/xrlf8AhZd5JeCG28NTSrLcTW1tJ9qAEskRbdn5flGFJzVXVPjLp2nxWgW2gFzND50kN3fLb+WNzJgMVO45Q9Pb1oHbWx2n/CPwf8/V5/4Ev/jSDRobeSORbi6Yq44a4Yg89xmrGiavb69olpqllnyLqISJn0NWZ/uL/vr/ADptNOzJTTV0SbF/uj8qNi/3R+VLRSGJsX+6PyopaKAMnw9/x53H/XzL/wChmtaud0azuZobh4dQmgX7TL8iIhH3j6itH+zr3/oMXH/fqP8A+JoA0aKzv7Ovf+gxcf8AfqP/AOJo/s69/wCgxcf9+o//AImgBdB/5Adt/un+ZqjqvhdNU1C6umumjNxYPZFQmdoYg7uvt0pNGsbt9Ht2TVJ41KnCiNCByfUVe/s69/6DFx/36j/+JoAytO8IPpOiajY2OpyRzXjb1uPKGYiI1Tpnn7ufxrNt/hvt07Vo7rVA97qkiSSXMFqIQGQ5DbAxBOevNdP/AGde/wDQYuP+/Uf/AMTR/Z17/wBBi4/79R//ABNHmGxiweCpBoutWd9qrXM2r/62cW4TafLCcLk+metZlz8M55I7u1t9e8iwu5BLLCLJWcuMf8tN2ccdMV1v9nXv/QYuP+/Uf/xNH9nXv/QYuP8Av1H/APE0dbh0sY9p4HitZLJxfO32W8nugPLHzGUOCvXtv/SqMfw9udPlhuNC102VysZileWzWZZV3s4+UsMEFzzXTf2de/8AQYuP+/Uf/wATR/Z17/0GLj/v1H/8TQBas4poLKKK6mWeZFAeVYwgc+u0dPpTp/uL/vr/ADqn/Z17/wBBi4/79R//ABNKunXQkQyapPIqsGKGNADjtwKNwNCiiigAooooAyfD3/Hncf8AXzL/AOhmvP1+KD6J8TtU0PWcvYmdVgkHWLKrx7jNd94fdVs59zAf6TL1P+2awLH4f6cvjq/8S6i8dxPNKHt4yeIwFAz9cigDtlYOoZeQRkUtM82MdHX86XzY/wC+v50Ac5Pqq6L4Ae/ZtpiiO05xyWIFc14b8Y3mjeG9Sg124bVtT0+aNAVcEzGUjYMjoMsBntXRyeHbXxN4VsLLUDutFkEssJUFZgCflbPbmqN18LtDNxNJo8cejpNCqGKyhVF8xXDrJgY5BUfWkt3f+v62Hpoc6PFniDTPGt5NqOhQreXMNrBDZxX5dPnd8MW2DH5dq0f+Fkag8OL/AEFrOJ3ltWlivNzLOikkD5Pu/KcN+laNv8PZDrCanqmu3F/dq8LFmhRAfLYkDA4Gd1WLvwDbXdsIWvZVAvZbvIQdZFZSv0G6m9v6/ruLqYsPxG1T+z7i5s/D/wBpstNjia6uJr3a+1olckDZ8xAb2zXodvMLi2jmUECRAwB9xXMWvgS2tdA1PSlvZWTUY1jeQqMpiJY8j8FzXT28It7WKFTuEaBQT3wKp2FqSUUUVIwooooAKKKKACiiigDI8PqrWc+4A/6TL1H+2a1fLT+4v5Vl+Hv+PO4/6+Zf/QzWtQA3y0/uL+VHlp/cX8qdRQBgabcR2ugxSzyiKKNCWZjgKMmotG8WaH4ikkj0PWLW/eIbnWCUMVHqcVzXirZ/wiWkteKW05b1DejbuHl5bqPTOKl8Wa5p8GiyS6Fe2y3n7uN7i2IdoYWkVWbK9MA/h1rVPS/yIa1SO23H1P50bj6n868hlv8AUY9aGi6R4ivrvT5Lm1/09rjzXVnYh4w/pgKcds1vyxrJ4ml0zU/EWoWMNhDH9lAvfKa6J6l2P3+QB+NMR3+4+p/OjcfU/nXkUetXyeRqcOvXdxqcmpm1fTDMfLWHzNmfL9k+bd+NXI7u9tPh7b3t1qmo3V/qriJHa9MMcLZbB387B6kA9qOl/T8R21seo7j6n86Nx9T+deMaJf69f6tbaFd65MiLftG81pfNOzIYXfHmkKTyBzjiu+8Ey3Qj1ayurye8WxvjDFLcPvkK7Eblu/LGmlf7r/l/mS3b+vX/ACOp3H1P51JASZRkmoqlg/1wpPYa3LVFFFYmgUUUUAY2gMy2c+1N3+ky98fxmtXzJP8Anif++hWb4e/487j/AK+Zf/QzWtQBH5kn/PE/99CjzJP+eJ/76FSUUAY2kWa3OgwpMqPG6kMjrkEZPBFLa+F9IsUlSy0uwtlmXbIsNsiBx6HA5FUxrP8AYnh3TZ3g8yGWYRSPux5QJPzdOen61JN4wsLK41I6m62dnYyJGbl2JDswzjAHY8U+b+v69RW/r+vQt2vh3TbKERWdhZ28YfzAkVuqgP8A3sAdfei98O6bqUscmo2FndyRf6tp4Fcp9CRxVSXx34Yh0+G+l1m2W2n3eVISfmx17Z4qWHxl4euFuTBq1s4tE3zkN9xfWnzMLImXw5piX/25NPs1u8Y+0C3USYxjG7GenFPm0OxuLL7HcWltLa/88HhVk/75IxXN3fxK0b+0dOksdUtZNMlaVbmba3yFU3Afy7Vt2HinT9WvbRNKuba6t7qN3WRZSGO3b0XHP3ueRjii7egWRPbeHtOstn2Ows7fYcr5UCrtOMZGBxxxViPT44WcwpHGZG3OVUDcemT6nirlFHMw5UV/sx/vCnRwlHDE5qaijmYWQUUUVIwooooAyfD3/Hncf9fMv/oZrWqlZWC2sBWKWQB3aQ9OrHJ7e9WPJb/ntJ+n+FAEtFReS3/PaT9P8KPJb/ntJ+n+FAHPz6V/bXgFrFfvyRHZzjDBsjn8K5m50XxNb+D7AC2u5Lq6uGuNVttNuVinO7LbUlLLjDEcg9BXotnapZWkdvGWZYxgFupqalb+v6/rRDueS+F/BesW2qLcXumXEcPnXLoLy6WeRQ8UYXc24kklT37UkngjUI9E06GbQnukt9H+zzW9vOkT+Z5sTAK24YPyk5zjjrXrdFVfb+u/+YjzHw5oHiG58S6dqGuae629tPIY/tYiM8SeVtXeyMd5yPvZJ9avaD4Z1Sx8eNqE1p5doZbtg4dej+Vt4Bzztb8q9AooTs0+1/xE1cKKKKQwooooAKKKKACiiigBsf8Aql+lOpsf+qX6U6gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/2Q==)

**delete from customers /\* query to delete row from customer table with email value ty@dcu.ie\*/**

**where email='ty@dcu.ie';**

**select \* from customers;**

![Graphical user interface

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**UPDATE customers /\* Query to update the phone and card values in rows with email mj@rtt.ie compare first output with the below you can see the change\*/**

**set phone='+6473838', card='YES'**

**where email='mj@rtt.ie';**

**select \* from customers;**

![Graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFZhbXNoaWRoYXIgUmVkZHkAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMyOQAAkpIAAgAAAAMyOQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**WHERE phone LIKE '+353%';**

![Graphical user interface, table

Description automatically 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**SELECT \* from queries**

Graphical user interface, application

Description automatically generated

**2. Servlet capturing input from html form:**

For this task I have used two tables one is customer account registration form, which can be found in register.html and the other one is query form which is in contact.html page. After considering these two forms, I have created two servlets one for each form which takes in the inputs filled in those forms once the form is submitted and inserting that data into the database on the cloud.

UploadServlet.java and QueryServlet.java are the two servlets used for this purpose. One the form is submitted by the user, respective servlet is invoked which calls the doPost() method in the servlet. In the doPost() method connection is created to the cloud database by using the below statements.

Connection con = **null**;

Statement stmt = **null**;

ResultSet rs = **null**;

String JDBCUrl = "jdbc:mysql://database-1.cdh305awjour.eu-west-1.rds.amazonaws.com:3306/mydatabase";

String username = "admin";

String password = "ee417web";

Once the connection is established, we read the data from the forms and create respective variables in the servlet and then assign these variables to the table values of the database by calling the insert statement.

PreparedStatement pstmt = con.prepareStatement("INSERT INTO mydatabase.customers(firstname, lastname, email, pass, gender, dob,address,phone,card) VALUES (?,?,?,?,?,?,?,?,?)");

By using this statement, the values in the above insert query can be updated in the order based on the number inside the setstring method.

pstmt.setString(1, firstname);

Once all the values have been set into the insert statement, it is then updated to create the changes in the database using pstmt.executeUpdate();

If the database update is successful, the servlet then closes the connection. If not, it displays the error and the type of the exception that has occurred.

I have tested both these servlets by filling the forms and saw the results using the JSP files, datatable.jsp and queries.jsp. These two pages display the tables we created in (Q1) inside the database, and every time the forms are submitted these two tables are updated.

**3. JSP page to display the Table:**

As we know from Q1, two tables are created in the database one consists of customer account registration and the other one is a table consisting of customer queries. Now to display the contents of those two tables I have created two jsp pages one for each table namely datatable.jsp and queries.jsp. The datatable.jsp display the account details of the customer which we give while filling the registration process, it does not display the password just to keep it secure considering the real-world scenarios. On the other hand, queries.jsp file displays all the details present in queries table.

The jsp files have the same structure of the other html pages to display navigation bar and title along with footer. A table is created in the center of the page which has the values of the database table. This is done by first pointing at the database source by providing the link with username and password. And then an SQL query is used on that database which selects the required columns that we need to display them in the html table. Both the codes are as below.

<!-- Assigning the datasource by providing the link for database with username and password -->

<sql:setDataSource var = *"snapshot"* driver = *"com.mysql.jdbc.Driver"*

url = *"jdbc:mysql://database-1.cdh305awjour.eu-west-1.rds.amazonaws.com:3306/mydatabase"*

user = *"admin"* password = *"ee417web"*/>

<!-- Writing an SQL query for selecting columns from the table from mydatabase.customers -->

<sql:query dataSource = *"*${snapshot}*"* var = *"result"*>

SELECT lastname, firstname, email, address, phone, gender, card FROM mydatabase.customers </sql:query>

After the above code now the data values of the tables are in variable “result”, now we create a html table with required columns and as per the values for the table we loop through each row present in the variable “results” and add them to each row of the html table. “forEach” algorithm is used for this purpose and once all the rows are finished the loop will be stopped. The code for the vales of the html table is as below. Queries.jsp also used the similar code but it values depends on the columns names and the queries table is used from the same database.

<c:forEach var = *"row"* items = *"*${result.rows}*"*>

<tr>

<td><c:out value = *"*${row.firstname}*"*/></td>

<td><c:out value = *"*${row.lastname}*"*/></td>

<td><c:out value = *"*${row.email}*"*/></td>

<td><c:out value = *"*${row.address}*"*/></td>

<td><c:out value = *"*${row.phone}*"*/></td>

<td><c:out value = *"*${row.gender}*"*/></td>

<td><value = "${row.card}"/></td>

</tr

</c:forEach>

The results of the jsp pages are displayed as below, figure one shows the data from customers table and figure 2 shows the data from queries table. These pages for add to the home page of the admin account you can find them in the navigation bar by logging into web application using account.html page with username as admin and password is ee417. You can also execute these pages directly on eclipse IDE to get the database values.

Graphical user interface

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Fig 1: Customer Account Data table in JSP file

Table

Description automatically generated

Fig 2: Customer Queries in html table in JSP file