Phase 5 - CSE5330 - Group 7

We have created the Java Swing Desktop Application for the **Restaurant Chain Management System.**

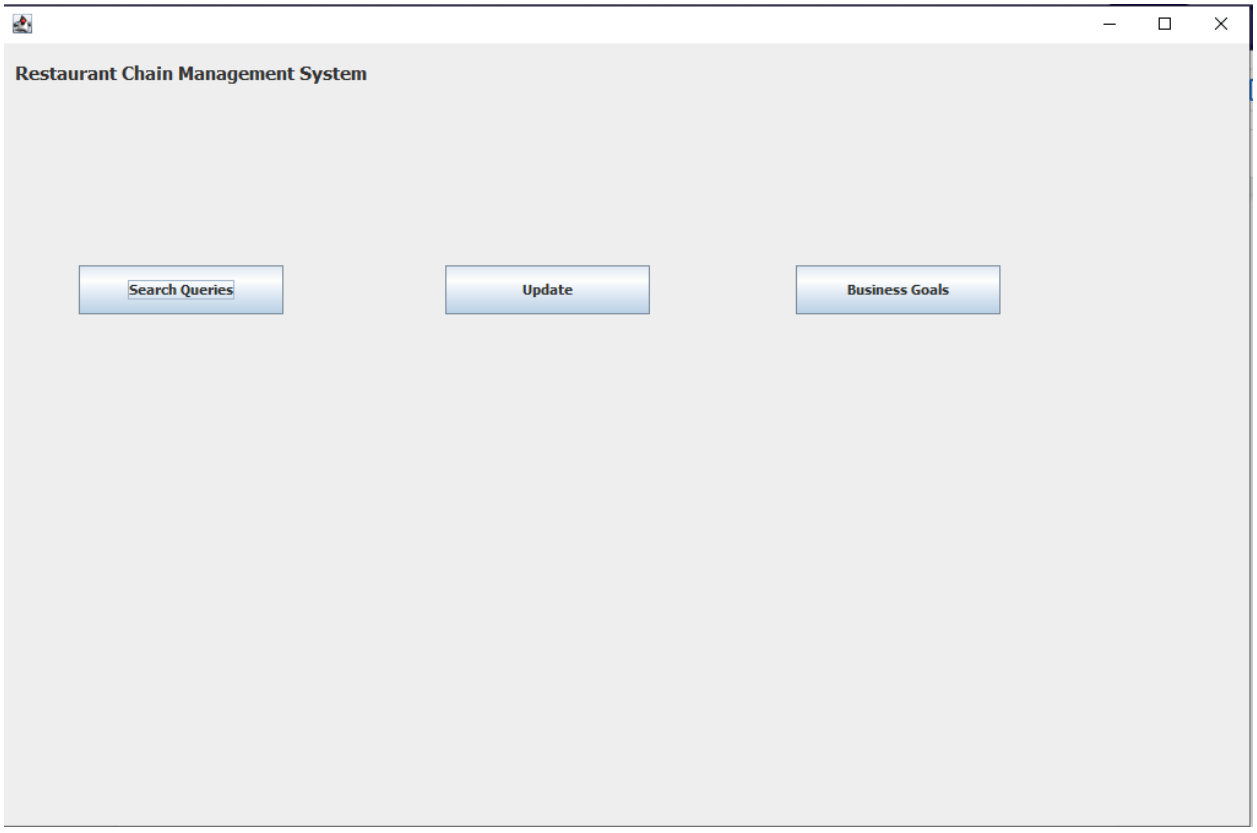
The steps to run the program:

1. Connect to the UTA VPN first.
2. First compile the program. Traverse to the SwingApp directory. Run below command in cmd.
   ```
   javac -cp ojdbc8-21.1.0.0.jar;rs2xml.jar; -d .\bin .\src\*.java
   ```

3. To run the program traverse to the bin directory. Run below command
   ```
   cd bin
   java -cp ..\ojdbc8-21.1.0.0.jar;..\rs2xml.jar; App
   ```

Functionalities implemented in the program:

1. After running the Application you will see the Start page.

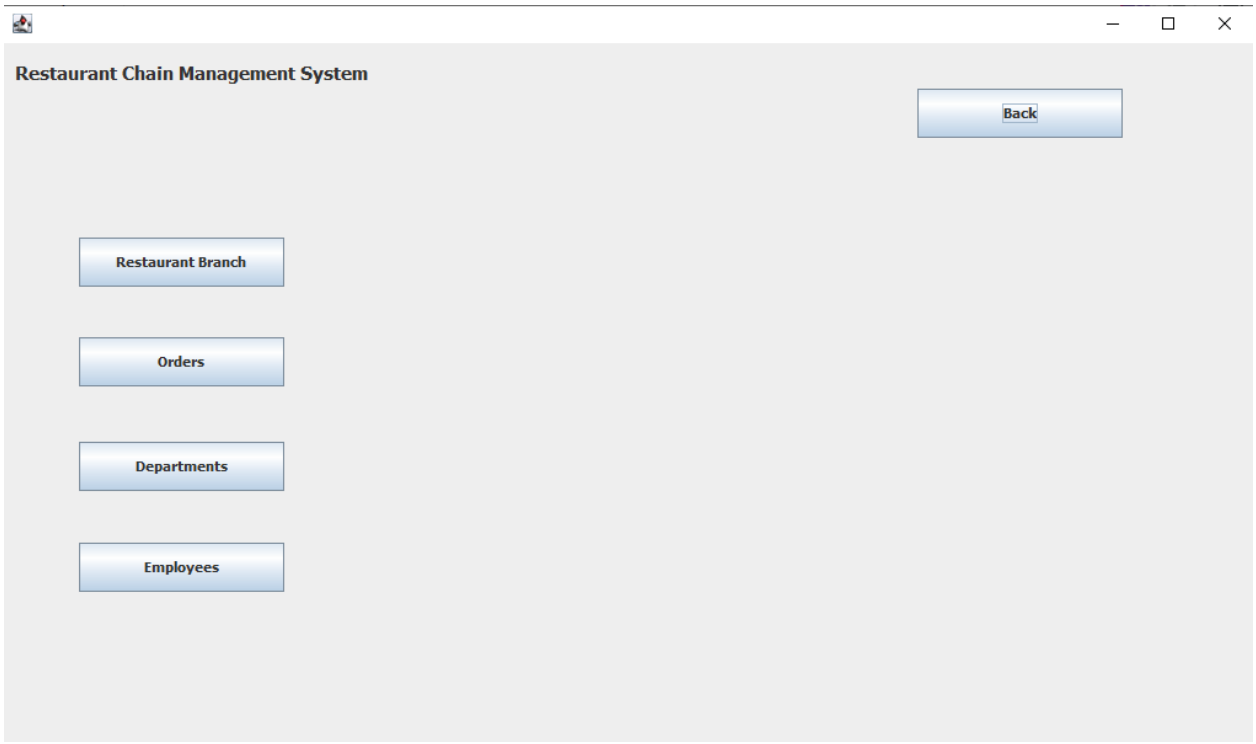


Here there are three options.

a. Search Queries
b. Update (Dynamic Queries)
c. Business Goals (Dynamic Queries)

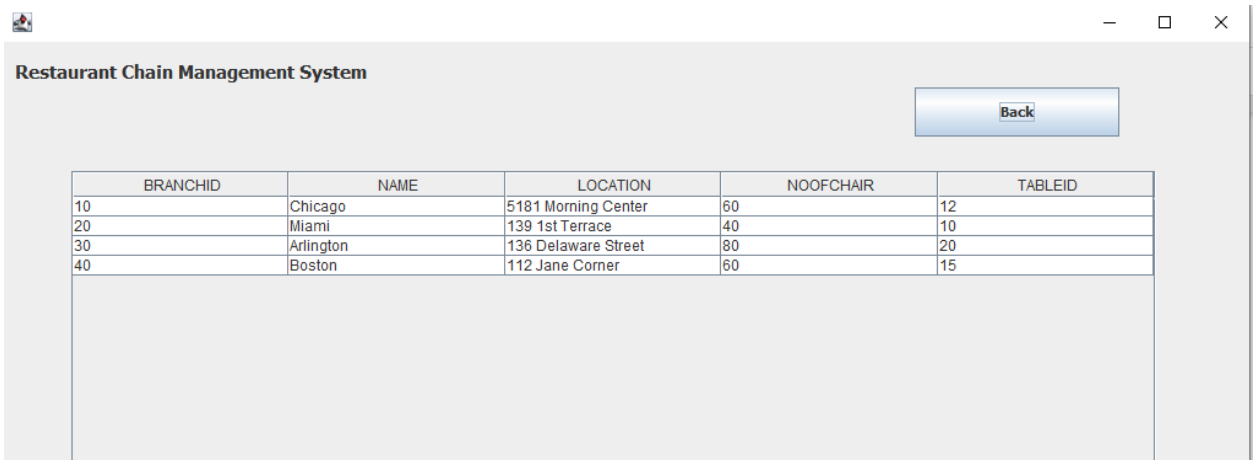
2. Search Queries

Click on Search Queries and you will get the page below.



Here we can see Restaurant Branch, Orders, Departments, Employee Tables.

2.1 Click on the Restaurant Branch Button



BRANCHID	NAME	LOCATION	NOOFCHAIR	TABLEID
10	Chicago	5181 Morning Center	60	12
20	Miami	139 1st Terrace	40	10
30	Arlington	136 Delaware Street	80	20
40	Boston	112 Jane Corner	60	15

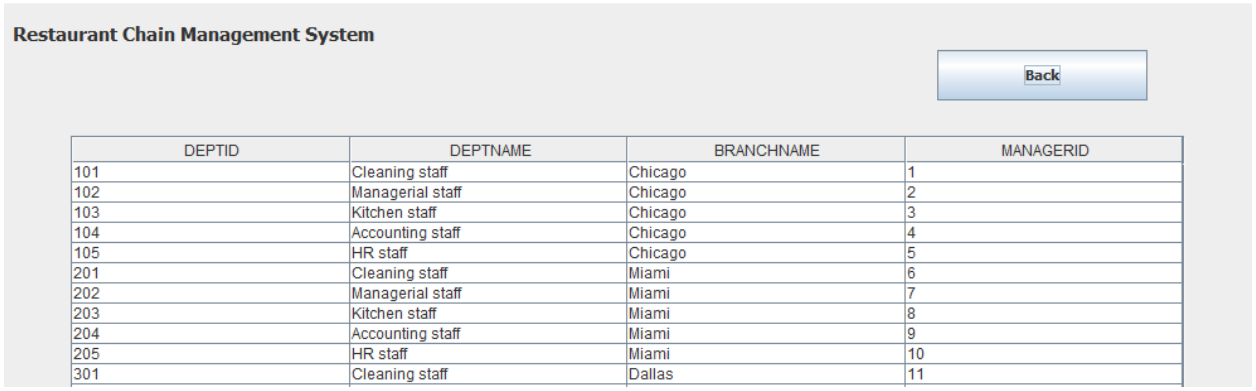
Click on the Back button to visit the previous Search page.

2.2 Now, click on the Orders Button

CUSTOMERID	DISHID	PRICE	ORDERID	ORDERDATE	WEEKDAY	TIME
501	1111	10	1001	2020-09-10 00:00:0...	Thursday	17:40
502	1122	12	1002	2020-09-10 00:00:0...	Thursday	17:40
503	1133	8	1003	2020-09-16 00:00:0...	Wednesday	17:40
504	1144	25	1004	2020-09-16 00:00:0...	Wednesday	17:40
505	1155	15	1005	2020-09-17 00:00:0...	Thursday	17:40
506	1122	12	1006	2020-09-18 00:00:0...	Friday	17:40
507	1144	25	1007	2020-09-18 00:00:0...	Friday	18:40
508	1155	15	1008	2020-09-18 00:00:0...	Friday	18:40
509	1111	10	1009	2020-09-18 00:00:0...	Friday	18:40
510	1122	12	1010	2020-09-18 00:00:0...	Friday	19:40

Click on the Back button to visit the previous Search page.

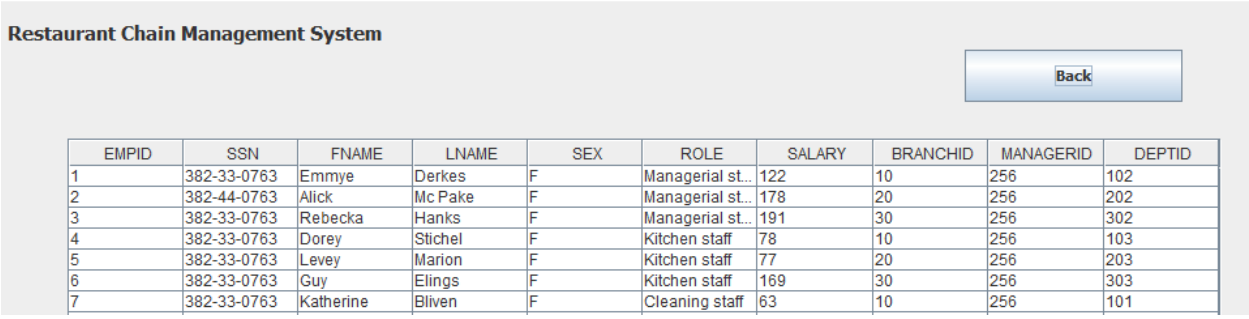
2.3 Now, click on the Departments Button



DEPTID	DEPTNAME	BRANCHNAME	MANAGERID
101	Cleaning staff	Chicago	1
102	Managerial staff	Chicago	2
103	Kitchen staff	Chicago	3
104	Accounting staff	Chicago	4
105	HR staff	Chicago	5
201	Cleaning staff	Miami	6
202	Managerial staff	Miami	7
203	Kitchen staff	Miami	8
204	Accounting staff	Miami	9
205	HR staff	Miami	10
301	Cleaning staff	Dallas	11

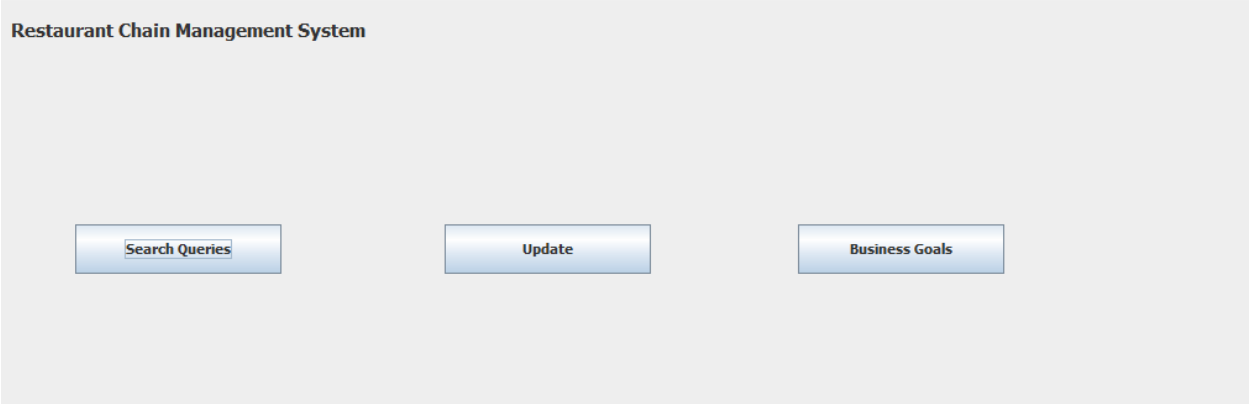
Click on the Back button to visit the previous Search page.

2.4 Now, click on the Employee Button



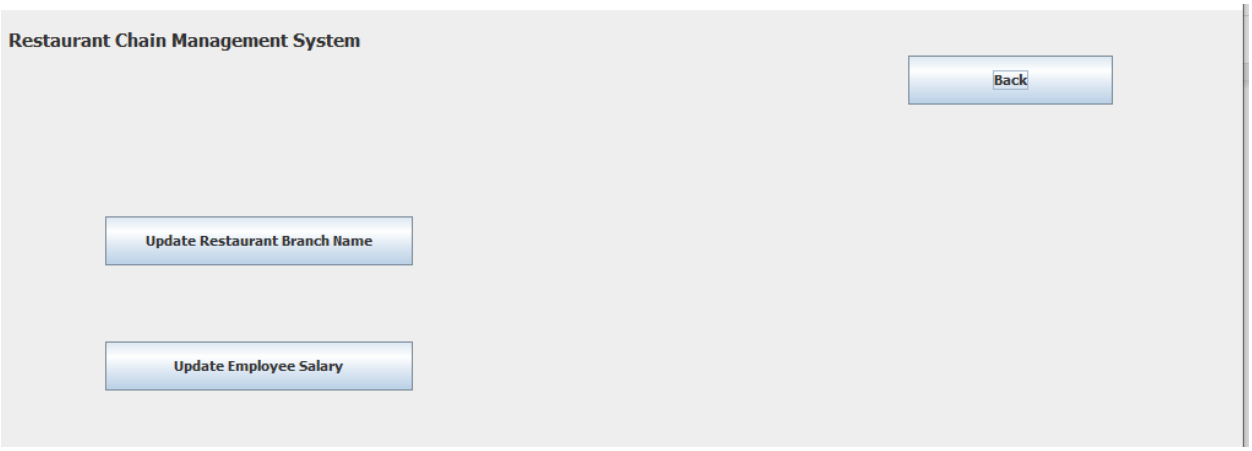
EMPID	SSN	FNAME	LNAME	SEX	ROLE	SALARY	BRANCHID	MANAGERID	DEPTID
1	382-33-0763	Emmye	Derkes	F	Managerial st...	122	10	256	102
2	382-44-0763	Alick	Mc Pake	F	Managerial st...	178	20	256	202
3	382-33-0763	Rebecka	Hanks	F	Managerial st...	191	30	256	302
4	382-33-0763	Dorey	Stichel	F	Kitchen staff	78	10	256	103
5	382-33-0763	Levey	Marion	F	Kitchen staff	77	20	256	203
6	382-33-0763	Guy	Elings	F	Kitchen staff	169	30	256	303
7	382-33-0763	Katherine	Bliven	F	Cleaning staff	63	10	256	101

Click on the Back button to visit the previous Search page.
Then again Click on the Back button to visit the previous Start App page.



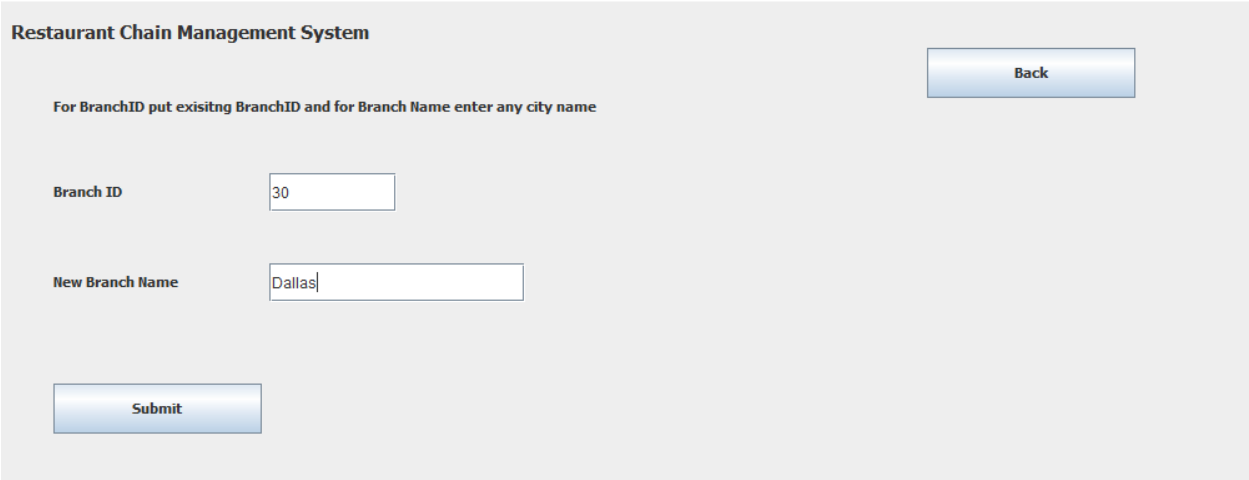
3. Update (Dynamic Queries)

Now click on Update button



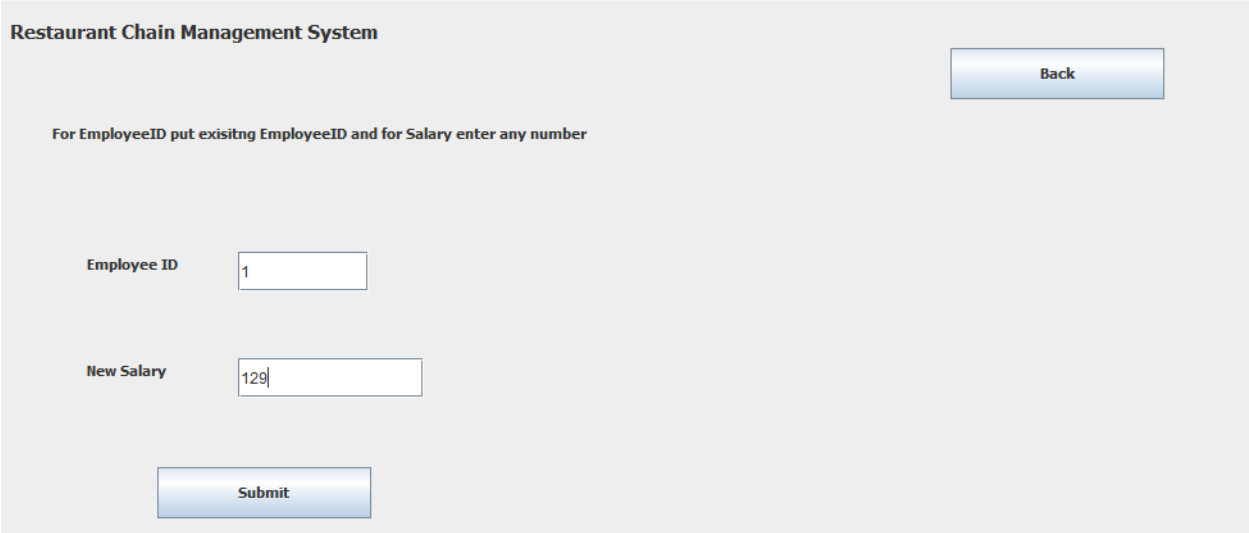
There are two options. Update Restaurant Branch Name and Update Employee Salary.

3.1 Click on Update Restaurant Branch Name
Here enter the existing branchId which you can get to know from Search Queries.
And enter a new name for the branch. We will update Arlington Name to Dallas.
Click on submit. Now it is updated.



Then go back to Search Queries and click on the Restaurant Branch Button to check the Branch Name is updated.

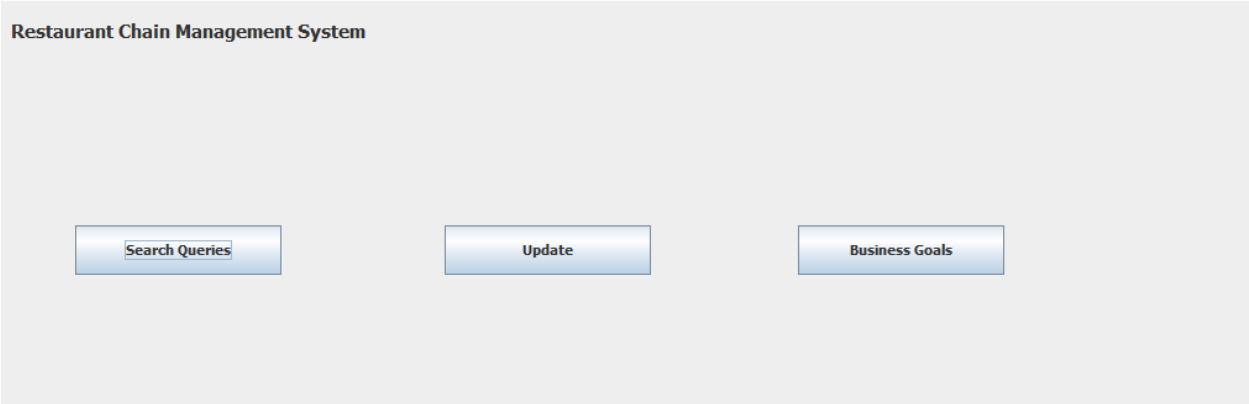
3.1 Click on Update Employee Salary.
Here enter the existing EmployeeID which you can get to know from Search Queries.
And enter a new Salary for the Employee. We will update EmployeeID 1's salary to 129.
Click on submit. Now it is updated.



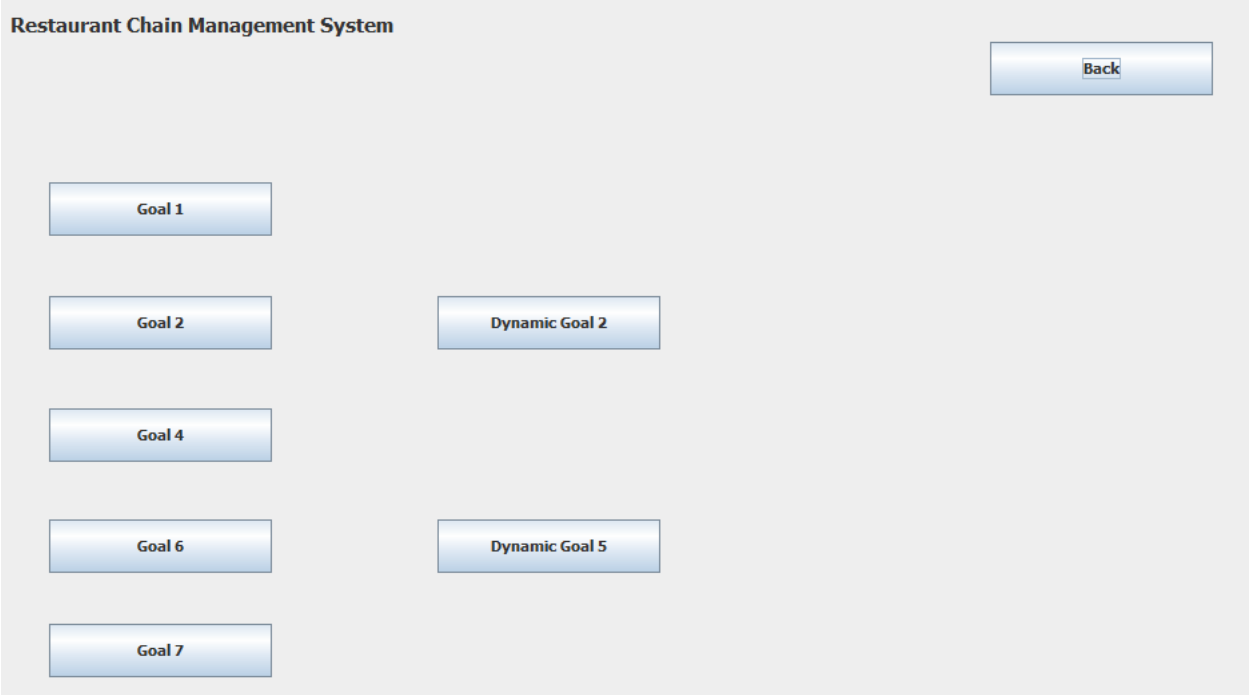
Then go back to Search Queries and click on the Employees Button to check that the salary is updated.

4. Business Goals (Dynamic Queries)

Go back to the Start App Page.

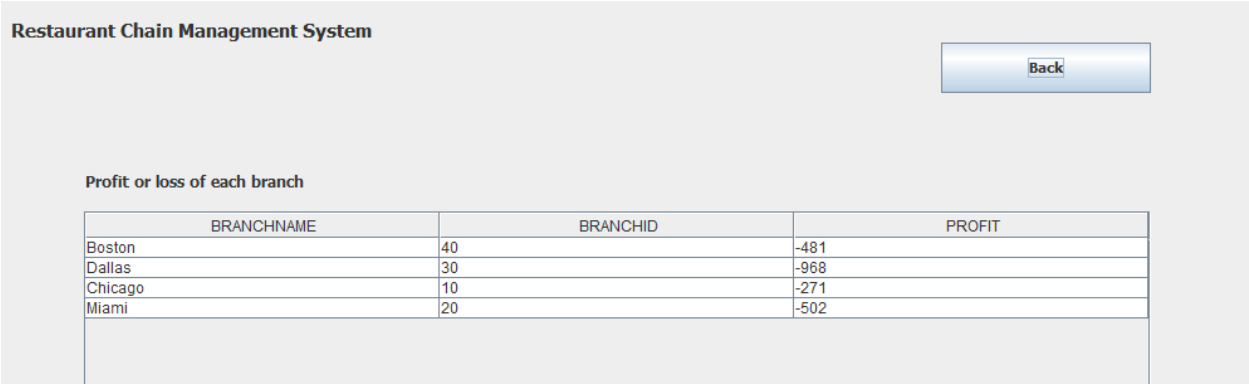


Here click on the Business goals button to open Goals page



4.1

Here you can click on each goal Button to print it's output.
For example click on the Goal 1 Button to print it's output as shown below.

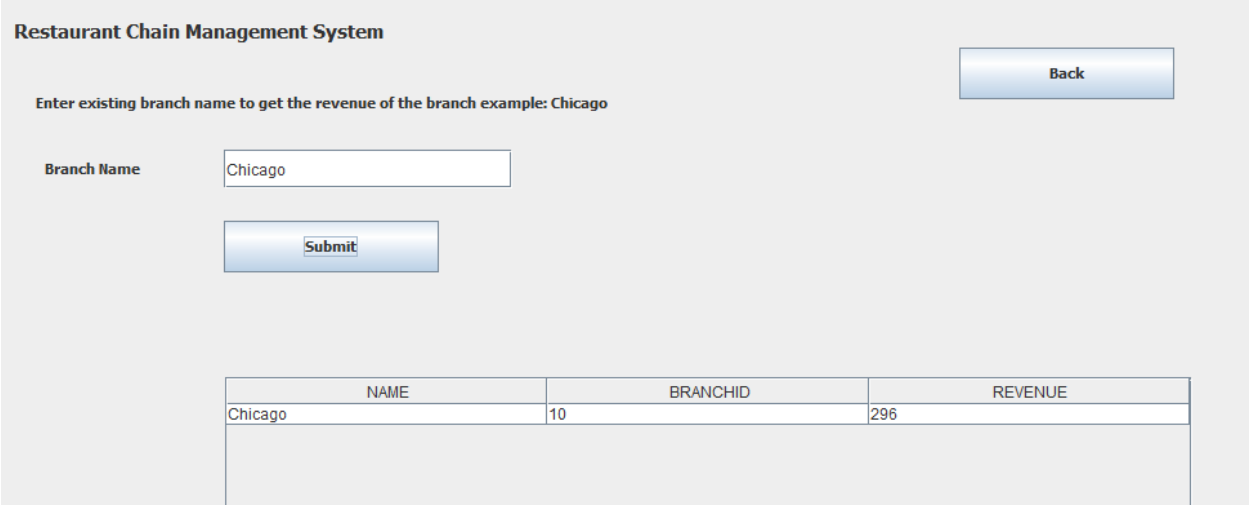


Similarly you can click on the other goals button to see the results.

Click on Back Button to go to the Business goals page.

4.2

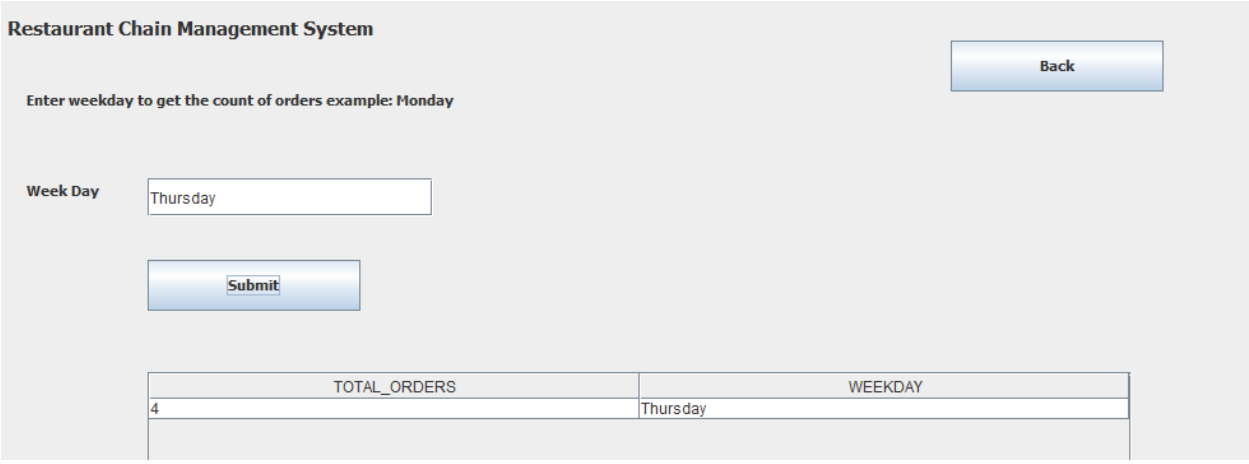
Now Click on the Dynamic Goal 2 Button.
Enter the existing branch Name to get it's revenue.
Click on the Submit button And the result will be displayed in the Table.



Click on Back Button to go to the Business goals page.

4.3

Now, click on the Dynamic Goal 5 button.
Enter the day of the week to know the count of orders placed on that weekday.
Click on the Submit button And the result will be displayed in the Table.



As per the requirement I have used various queries including aggregates, HAVING clause, GROUP BY, and ORDER BY, ROLLUP clauses.
Also I am showing the tables and updating the data of tables from user input.