

Team 06:

Globetrotter

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Background:

This is a Java application that was built using QueryRunner and WindowBuilder. The purpose of this application is to provide travelers with a program that allows them to plan their perfect trip. There will be a number of queries run that demonstrate the power that this application has. Initially, members will be able to add themselves into the database and rate places they have gone to for others users to have access to. After that, the queries are informational to the users, whether it's top destinations visited, someone looking for a luxury vacation, or a bang your buck trip, Globetrotter has all the information necessary for the user to experience a fantastic vacation.

Improvements on QueryRunner:


1. Flushed out documentation to accurately and informatively describe the purpose of the program in the QueryRunner.java file.
2. Added ability to read in the queries from a text file
3. Added ability to run stored procedures
4. Improvements on GUI colors and initial opening of application
5. Auto fill host, user, password, and database in GUI for quicker connectivity
6. Added error handling to console functions

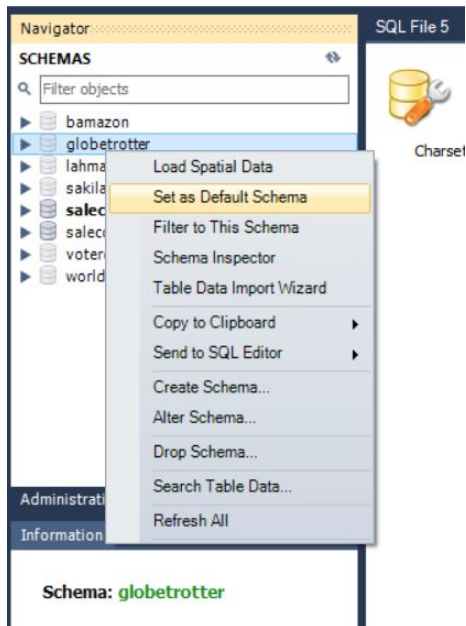
Directions:

1. Download and unzip MileStone3_team06.zip
2. This will include our milestone2 pdf, milestone2 sql queries, milestone3 model, milestone3 dump, milestone 3 powerpoint, and these instructions on how to run our application.

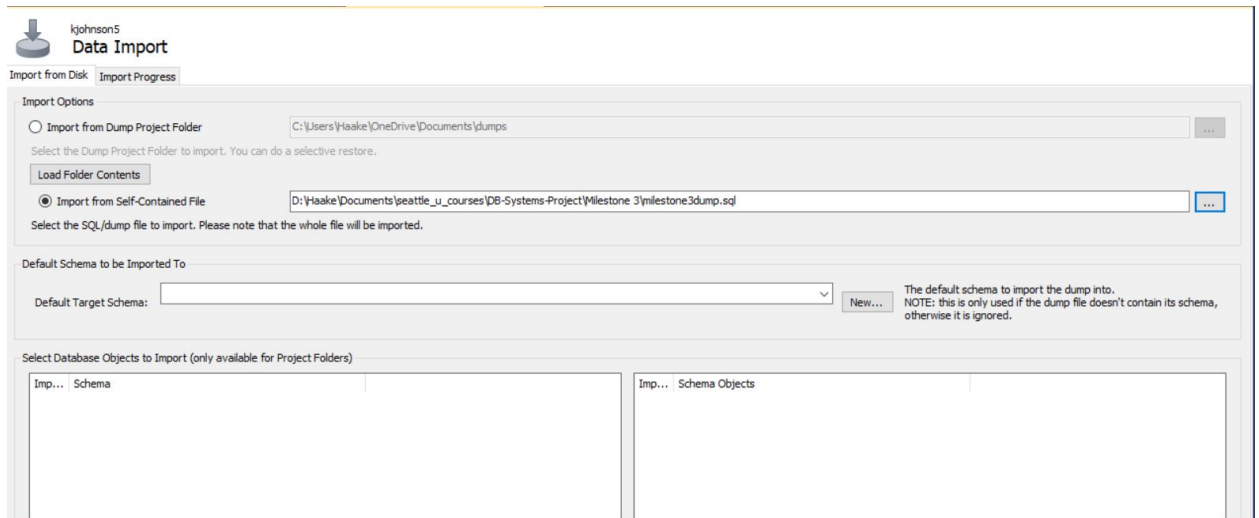
Importing Database:

Open MySQL Workbench

- Select the 'Create New Schema' icon 
- Enter 'globetrotter' as the schema name and click apply, apply, and finish.
- Refresh your schema window on the left, right click globetrotter and select 'Set as Default Schema'

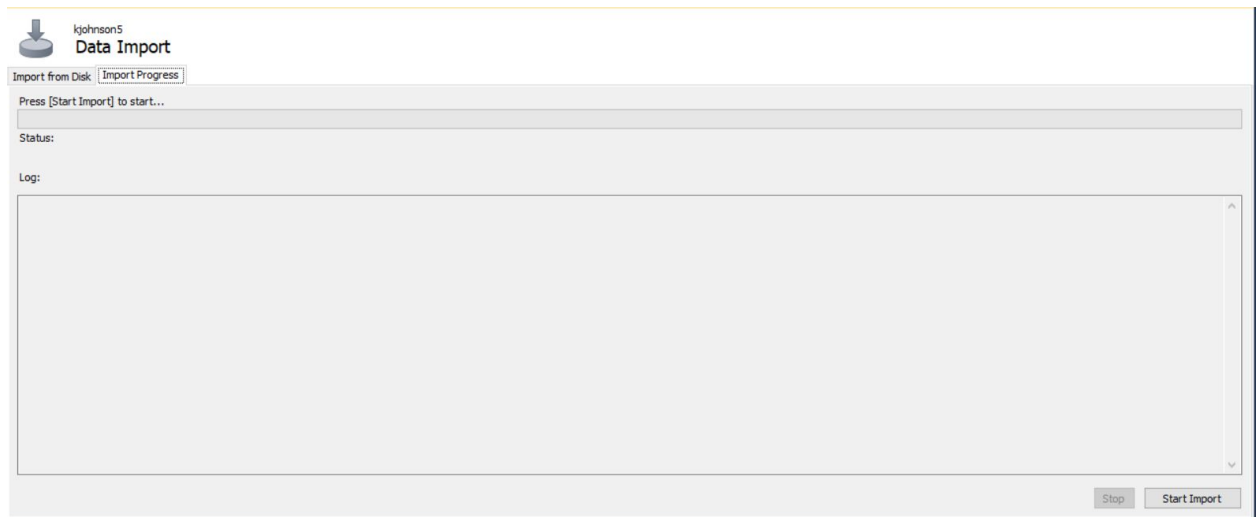


-
- Select Server->Data Import
- Select the radio button for 'Import from Self-Contained File'
- Select the '...' button on the right side and find the milestone3dump.sql file from the extracted Milestone3_team06.zip file



- Select the tab for 'Import Progress'

- Select 'Start Import' in the bottom right corner

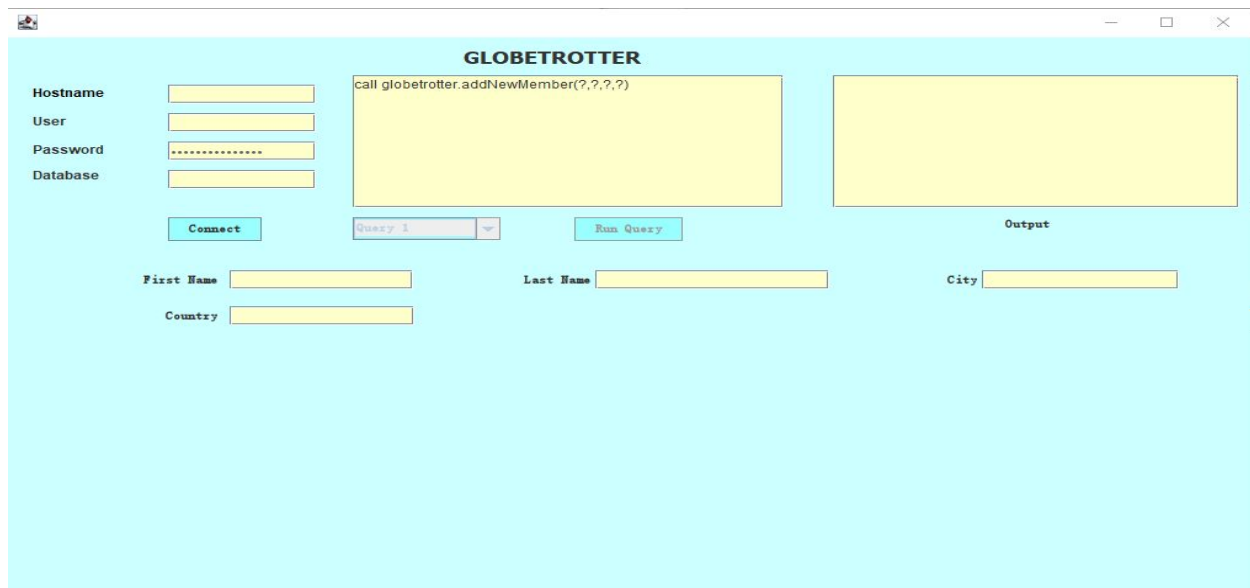


- Now refresh your Schema window and your database is all set up!

Running Application:

Open in Terminal (or cmd on windows)

- Run globetrotter.jar using the command line:
 - java -jar yourPathTo/globetrotter.jar
- or just navigate to where the globetrotter.jar is and use the command:
 - java -jar globetrotter.jar (Note: no space between “-jar”)
- You will see the Application like this:



Connect to the database:

- hostname = "mysql-test01.cw3pilckgozo.us-east-1.rds.amazonaws.com";

- user = "admin";
- password = "Mile!56stone";
- database = "globetrotter";
- Then click "Connect" button

Intro page

- The query 1 drop-down menu will light up after connected

Query Running

1. Add a new user to the database :

- Stay at query 1 at the dropdown menu.
- Enter the first name, last name, the city that the new user currently lives in and the country of citizenship.

The screenshot shows the GLOBETROTTER application window. On the left, there are input fields for Hostname (rds.amazonaws.com), User (admin), Password (masked with dots), and Database (globetrotter). Below these is a Disconnect button. In the center, there is a text area containing the query 'call globetrotter.addNewMember(?,?,?)'. Below the text area is a dropdown menu currently showing 'Query 1' and a Run Query button. On the right, there is an Output window showing 'Rows affected = 1'. At the bottom, there is a form with four input fields: First Name (Jason), Last Name (Peters), City (Seattle), and Country (US). The entire form is enclosed in a red rectangular border.

- c. Click the “Run Query” button to add the new member’s information

This image is a close-up of the bottom section of the application interface. It shows the Disconnect button, the Query 1 dropdown menu, and the Run Query button. The Run Query button is highlighted with a red rectangular border.

- d. The new user information is successfully added when the output window shows the below message

This image is a close-up of the Output window. It shows a yellow text area with the message 'Rows affected = 1'.

2. The user adds a new travel rating:

- a. Go to query drop-down menu and select Query 2

Hostname

User

Password

Database

rds.amazonaws.com

admin

globetrotter

Disconnect

Query 2

Run Query

INSERT INTO RATING (rat_stars, rat_amt_spent, hotel_id, member_id, air_code, dest_id, highlight_id)
VALUES (?, ?, ?, ?, ?, ?, ?)

Stars

Amount Spent

Hotel ID

Member ID

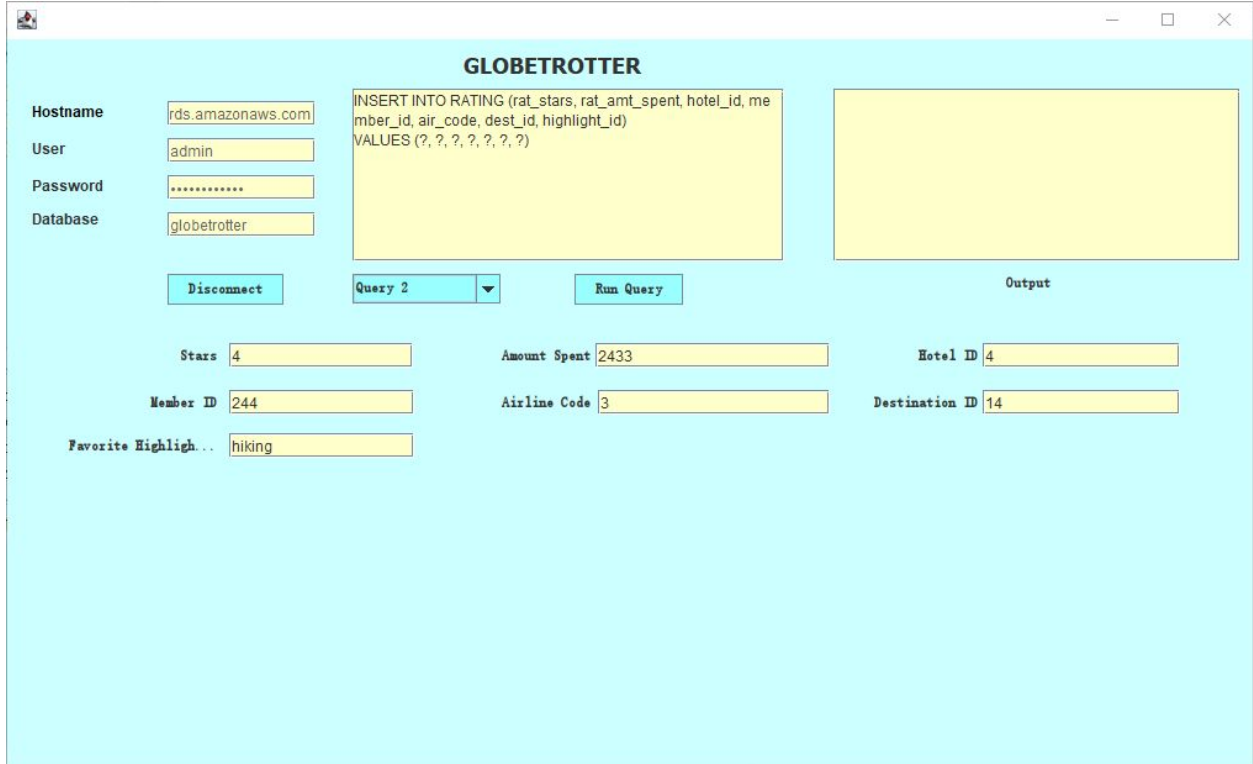
Airline Code

Destination ID

Favorite Highlight...

Output

- b. The user adds a rating for this travel(1-5 stars, 1-star means the user did not enjoy the trip, and 5-star means the user thoroughly enjoyed the trip), the entire travel expense, the hotel stayed at, the airline flown on, travel destination and the favorite highlight of the trip.



GLOBETROTTER

Hostname:

User:

Password:

Database:

Query 2 ▼

Output

Stars:

Amount Spent:

Hotel ID:

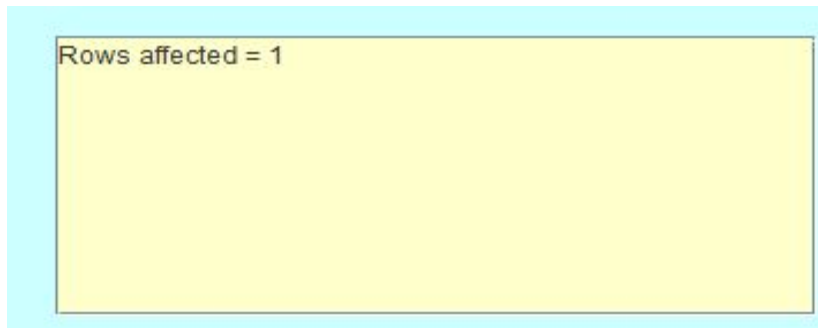
Member ID:

Airline Code:

Destination ID:

Favorite Highlight...:

- c. Click the “Run Query” button to add the rating information.
- d. The new user information is successfully added when the output window shows the below message



Rows affected = 1

3. Users want to know the top-3 visited destination

- a. Go to query drop-down menu and select Query 3
- b. Click the “Run Query” button to generate the top 3 visited destinations in the Globetrotter database

Hostname

rds.amazonaws.com

User

admin

Password

Database

globetrotter

Disconnect

Query 3

▼

Run Query

Output

call globetrotter.top3MostVisited()

Destination	Number of Visits
Buea	36
Winston Salem	33
Kaesŏng	32

4. Users looking for a destination with specific needs

- Go to query drop-down menu and select Query 6

Hostname

rds.amazonaws.com

User

admin

Password

Database

globetrotter

Disconnect

Query 6

▼

Run Query

Output

ON HIGHLIGHT

JOIN RATING ON RATING.dest_id = DESTINATION.de

st_id

Where

FOOD_TYPE.food_name = ?

AND HIGHLIGHT.highlight_name = ?

AND RATING.ra_amt_spent < ?

GROUP BY DESTINATION.dest_name

Order By RATING.ra_amt_spent DESC;

Food Type

Highlight Type

Max Amount Spent

- Enter favorite or most desired food at the destination,
- Enter highlight or most wanted to do at the destination
- Enter your maximum travel budget
- Click the “Run Query” button to generate destinations matched with the user’s specifications

GLOBETROTTER

Hostname:

User:

Password:

Database:

```

ON:highlight_id
JOIN RATING ON RATING.dest_id = DESTINATION.de
st_id
Where
      FOOD_TYPE.food_name = ?
AND HIGHLIGHT.highlight_name = ?
      AND RATING.rat_amt_spent < ?
GROUP BY DESTINATION.dest_name
Order By RATING.rat_amt_spent DESC;

```

Food Type:

Highlight Type:

Max Amount Spent:

Destination	Food Type	Highlight	Expenses
Hanjia	curry	hiking	2083

5. Bang for your buck

- Go to query drop-down menu and select Query 7
- Click the “Run Query” button to generate the list of destinations with 4 stars or above and the travel expenses is lower than \$1,500.

Hostname

rds.amazonaws.com

User

admin

Password

.....

Database

globetrotter

Disconnect

Query 7

Run Query

Output

Destination	Expenses	Rating
Miami Beach	1404	5
Komsomolsk	1470	5
Rennes	1495	5
Polonne	1378	5
Zhuhu	1341	5
Yanjiang	1116	5
København	1341	5
Iwanuma	1386	5
Alcala	1066	5
Muurla	1254	5
Hanjia	1102	5
Lyublino	1129	5
Vorzel'	1451	5
Xinhu	1205	5

- c. Users can go through the entire list of destinations by moving the scroll bar on the right side.

6. Most Popular Hotel In Each Destination:

- a. Go to query drop-down menu and select Query 8
- b. Click the “Run Query” button to generate the list

GLOBETROTTER

Hostname:

User:

Password:

Database:

```

FROM RATING
GROUP BY dest_id, hotel_id) temp
GROUP BY dest_id
)t2
ON t2.dest_id = t1.dest_id AND t2.largestCount = t1.num
Stays
JOIN DESTINATION d ON t1.dest_id = d.dest_id
JOIN HOTEL_BRAND h ON t1.hotel_id = h.hotel_id
ORDER BY d.dest_name

```

Query 8

Output

Destination	Hotel Name	# of Stays
Aanislag	Best Western	7
Abreus	Choice Hotels	5
Abreus	Westin	5
Agios Spyridon	Choice Hotels	4
Agios Spyridon	Walt Disney	4
Agios Spyridon	Westin	4
Alcala	Choice Hotels	6
Alcala	Hyatt Hotels	6
Anle	Choice Hotels	7
Anle	Four Seasons	7
Artur Nogueira	Choice Hotels	4
Artur Nogueira	Four Seasons	4
Avidsjaur	Choice Hotels	5
Aunsburg	Marriott	4

- c. The list includes every hotel in each destination (in alphabetical order) and how many times each hotel is stayed at by users (from most stays to least stays)

7. Users Looking for Destination by highlights

- a. Go to query drop-down menu and select Query 10
- b. Enter the user's desired highlight into the "Highlight name" box

GLOBETROTTER

Hostname:

User:

Password:

Database:

```

DESTINATION,
RATING,
HIGHLIGHT
WHERE
DESTINATION.dest_id = RATING.dest_id
AND HIGHLIGHT.highlight_id = RATING.highlight_id
AND RATING.rat_stars = 5
AND HIGHLIGHT.highlight_name = ?
GROUP BY DESTINATION.dest_name;

```

Query 10

Highlight Name:

Destination	Highlight	Rating
Alcala	music	5
Nowe Warpno	music	5
Zhuhu	music	5
Anle	music	5
Champerico	music	5
Augsburg	music	5
Hanjia	music	5
Los Rastrojos	music	5
Dhidhdhoo	music	5
Abreus	music	5
Vorzel'	music	5
Muurla	music	5
Kebonan	music	5
Winston Salem	music	5

c. It generates a list of destinations that have a 5-star rating on the entered highlight.

Running Console Application:

Open in Terminal (or cmd on windows)

- run globetrotter.jar using the command line:
 - java -jar yourPathTo/globetrotter.jar
- or just navigate to where the globetrotter.jar is and use the command:
 - java -jar globetrotter.jar (Note: no space between “-jar”)
- You will see the Application like this:

```
***** Welcome to GlobeTrotter *****
```

```
*** What would you like to do?***
```

1. Add a member
2. Add a rating
3. See the top 3 most visited destinations
4. See luxurious 4 and 5 star destinations
5. See low cost 4 and 5 star destinations
6. Find a destination by food type, highlight type, and cost
7. Display the top 5 most desired destinations by our members
8. Display the most commonly stayed with hotels at each destination
9. Display the most commonly flown with airlines for each destination
10. Find a 5 star destination by highlight type
11. Quit

```
Please enter a number for your choice:
```

- From here you may select any of the options in order to run the same queries that were described in the GUI application.

- For example, let's run through an add rating query:

```
***** Welcome to GlobeTrotter *****

*** What would you like to do?***

1. Add a member
2. Add a rating
3. See the top 3 most visited destinations
4. See luxurious 4 and 5 star destinations
5. See low cost 4 and 5 star destinations
6. Find a destination by food type, highlight type, and cost
7. Display the top 5 most desired destinations by our members
8. Display the most commonly stayed with hotels at each destination
9. Display the most commonly flown with airlines for each destination
10. Find a 5 star destination by highlight type
11. Quit

Please enter a number for your choice: 2

What is your member ID?
300

What is the destination ID for your destination?
Enter 0 to see all destinations:
█
```

- First you will enter your member ID number.
- Then, on the next sets of options you will need to enter the ID's for the destination, hotel, airline, and highlight. You are then prompted for the amount you spent at the destination and your rating.
- At each step you are given the option to display the ID's and names for each selection in case you don't recall the ID:

Please enter a number for your choice: 2

What is your member ID?
300

What is the destination ID for your destination?
Enter 0 to see all destinations:
59

Who did you fly with? (please enter the airline code)
Enter 0 to see all airlines:
0

air_code	air_name
7C	Jeju Air Co Ltd.
AA	American Airlines
AC	Air Canada
AF	Air France
AS	Alaska Airlines
B6	JetBlue Airways
BA	British Airways
CA	Air China
CZ	China Southern
DL	Delta Airlines
HA	Hawaiian
HU	Hainan Airlines
JO	Jalways Co. Ltd.
LH	Lufthansa
MU	China Eastern
NK	Spirit Air Lines
OZ	Asiana
TG	Thai Airways
TRA	Aeromexico
UA	United
WN	Southwest

Who did you fly with? (please enter the airline code)
Enter 0 to see all airlines:

- Once you are done using the application you only need to enter 11 to exit.