

# Query Runner

This is a JAVA SWING application that was created on IntelliJ that uses JDBC to talk to our Horoscope database. It is designed to provide entertainment for users by providing them with astrological data. This version provides users a simple GUI application to run queries and display the results. There is also an option to run the application via the IntelliJ console. Both regular and action queries are included in this app.

## Database:

CrystalGazing uses the queries from the database of “mm\_cpssc502101team02” created by our team. The dump file is provided for a local connection database import and setup. To create this local connection on MySQL Workbench do the following:

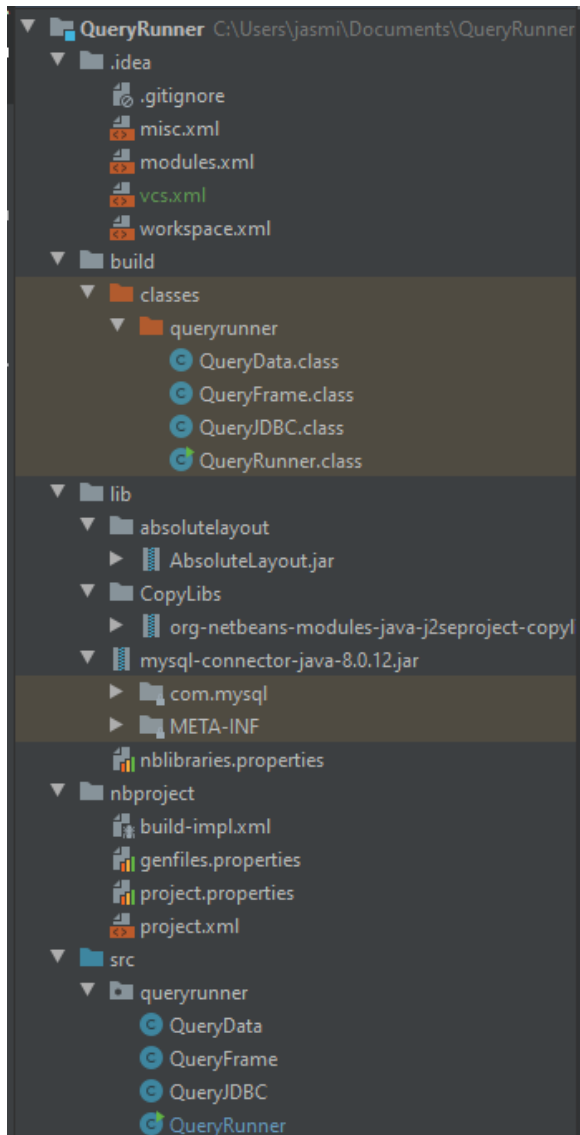
1. Go to your local connection
2. Create database called “horoscope”
3. Open the sql script dump file
4. Run it the script to load the database

The connection for the application is also available as “mm\_cpssc502101team02” on the cloud server, cs1.seattleu.edu. The credentials for the cloud server are the following:

```
hostname: cs100
username: mm_cpssc502101team02
password: mm_cpssc502101team02Pass-
```

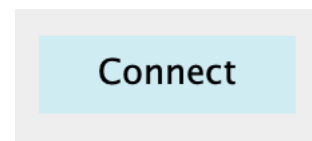
## Download and Unzip:

1. Download the milestone3.zip file and unzip it in a folder on your computer.
2. Now, there should be a milestone2.pdf, milestone2query.sql, milestone3.mwb, milestone3dump.sql, queryrunner.zip, milestone3instructions.doc, milestone.ppt.
3. The queryrunner.zip has java source files that can be imported into a project using IntelliJ. Make sure the MYSQL Connector Jar file is there by expanding the src and lib folders, as well as the 4 java files you see to make up the QueryRunner application.

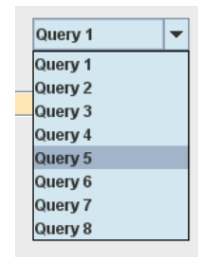


## Running the Application on the GUI:

1. Click on the 'QueryRunner' from the 'src' folder
2. Click 'build', then 'run'
3. Put in your database credentials. For the cloud it is the following:  
hostname: cs100  
username: mm\_cpsc502101team02  
password: mm\_cpsc502101team02Pass-  
Database: mm\_cpsc502101team02
4. Click 'Connect'



5. You can now choose which query you want to run from the drop down menu. They are displayed below.




6. Click Disconnect to log out



## 1st Query Running:

In this panel, the screen displays the users planet's horoscope. Every time a user clicks on the "Run Query" button the user will be given a new planet horoscope description. The PLANET\_ID must be a number between 1 and 12.

CRYSTAL GAZING— □ ×

Hostname

localhost

User

root

Password

••••••••

Database

horoscope

Disconnect

Query 1 ▼

Run Query


Output

PLANET\_ID

2

planet_horoscope_description
The greatest risk is not taking one.

User clicking the “Run Query” button the second time resulting in a different planet horoscope description.

— □ ×

### CRYSTAL GAZING

Hostname

localhost

User

root

Password

••••••••

Database

horoscope

Disconnect

Query 1 ▼

Run Query

Output

PLANET\_ID

2

planet_horoscope_description
Stop letting other people stand in your way.

## 2nd Query Running:

In this panel, the screen displays the users planet's horoscope. Every time a user clicks on the "Run Query" button the user will be given a new star horoscope description. The STAR\_ID must be a number between 1 and 12.

The screenshot shows a web application window titled "CRYSTAL GAZING". On the left, there are input fields for "Hostname" (localhost), "User" (root), "Password" (masked with dots), and "Database" (horoscope). Below these is a "Disconnect" button. In the center, there is a text area containing a SQL query: `SELECT star_horoscope_description FROM star_horoscope_description WHERE star_id=? ORDER BY RAND() LIMIT 1`. Below the query area is a dropdown menu showing "Query 2" and a "Run Query" button. To the right of the query area is a large empty box labeled "Output". Below the "Run Query" button is a "STAR\_ID" label and an input field containing the number "1". At the bottom of the window, there is a table with one row. The table has a header row with the column name "star\_horoscope\_description" and a data row with the text "Joys are often the shadows, cast by sorrows."

star_horoscope_description
Joys are often the shadows, cast by sorrows.

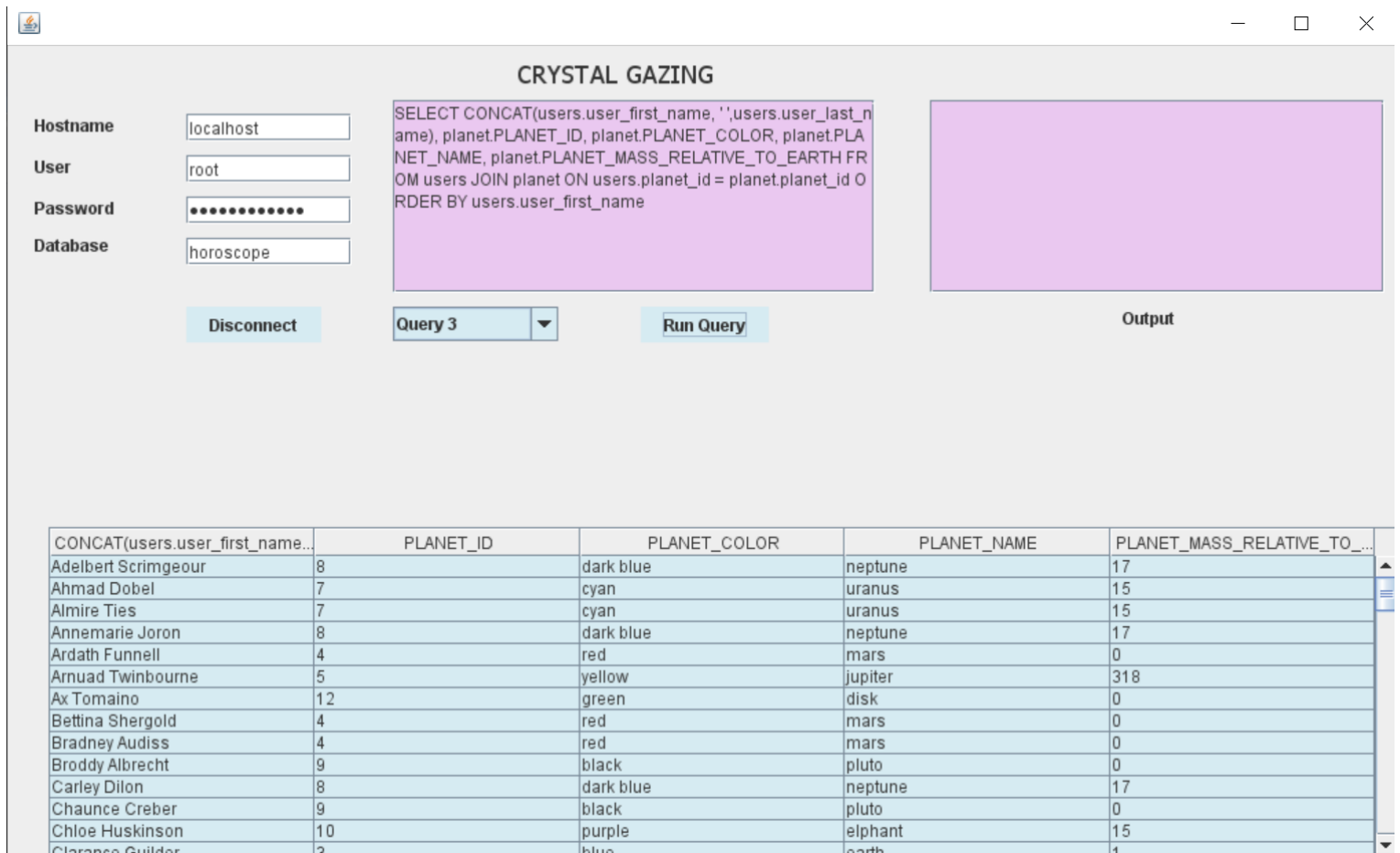
User clicking the “Run Query” button the second time resulting in a different star horoscope description.

The screenshot shows a web application titled "CRYSTAL GAZING". On the left, there are input fields for "Hostname" (localhost), "User" (root), "Password" (masked with dots), and "Database" (horoscope). Below these is a "Disconnect" button. In the center, a text area contains the SQL query: `SELECT star_horoscope_description FROM star_horoscope_description WHERE star_id=? ORDER BY RAND() LIMIT 1`. Below the query area is a dropdown menu showing "Query 2" and a "Run Query" button. To the right of the query area is a large empty box labeled "Output". Below the "Run Query" button is a "STAR\_ID" label and an input field containing the number "1". At the bottom, a table displays the results of the query. The table has one column, "star\_horoscope\_description", and one row with the value "You are very talented in many ways."

star_horoscope_description
You are very talented in many ways.

### 3rd Query Running:

In this panel, the screen displays the planet's information for each of the users.

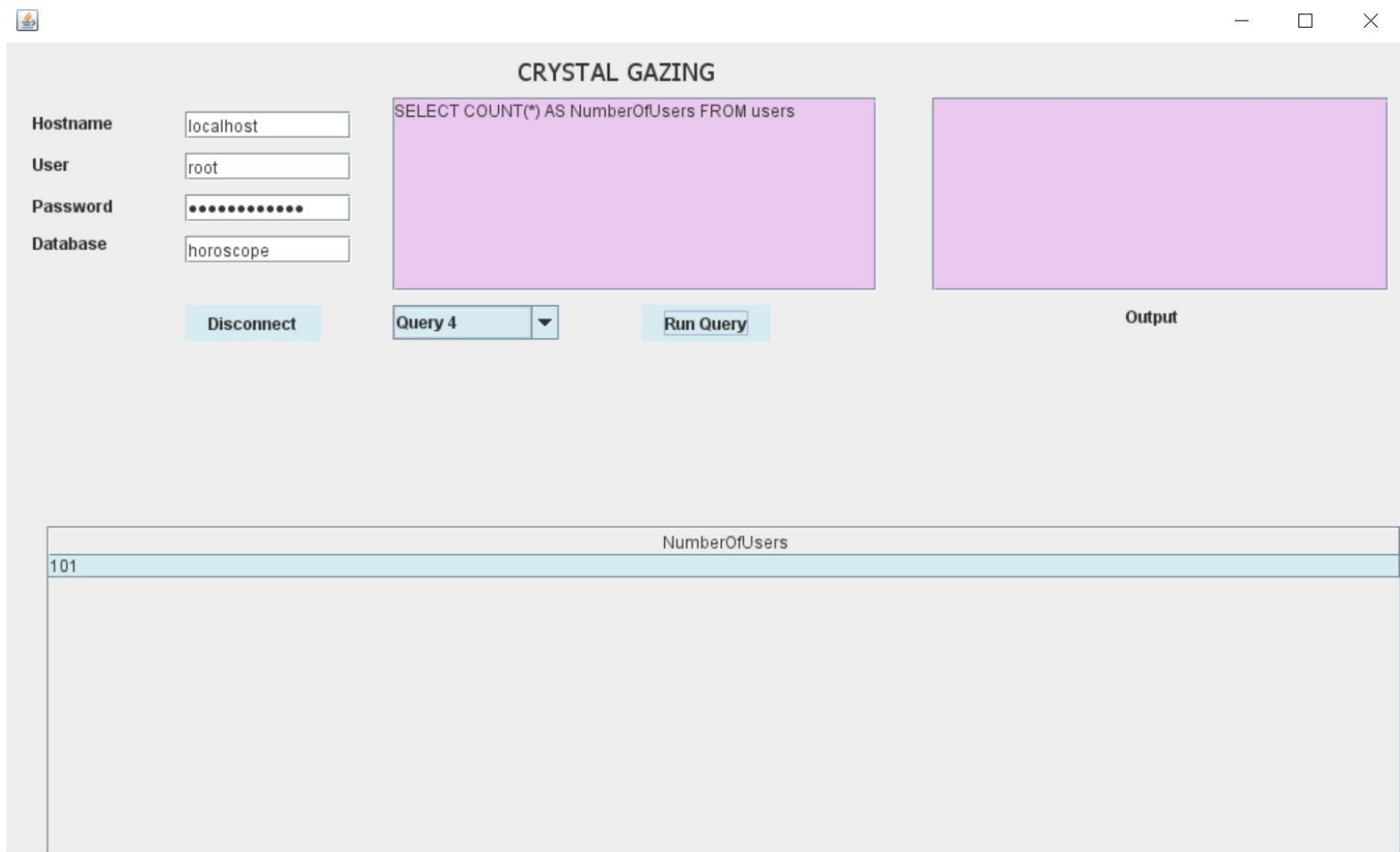


The image shows a screenshot of a web application titled "CRYSTAL GAZING". It features a login section on the left with fields for Hostname (localhost), User (root), Password (masked with dots), and Database (horoscope). Below these fields are buttons for "Disconnect" and "Run Query". A dropdown menu shows "Query 3" selected. The main area contains a SQL query in a purple box: `SELECT CONCAT(users.user_first_name, ' ', users.user_last_name), planet.PLANET_ID, planet.PLANET_COLOR, planet.PLANET_NAME, planet.PLANET_MASS_RELATIVE_TO_EARTH FROM users JOIN planet ON users.planet_id = planet.planet_id ORDER BY users.user_first_name`. To the right of the query is a large empty purple box labeled "Output". At the bottom, a table displays the query results with columns: CONCAT(users.user\_first\_name, ' ', users.user\_last\_name), PLANET\_ID, PLANET\_COLOR, PLANET\_NAME, and PLANET\_MASS\_RELATIVE\_TO\_EARTH. The table lists 20 rows of user and planet data.

CONCAT(users.user_first_name, ' ', users.user_last_name)	PLANET_ID	PLANET_COLOR	PLANET_NAME	PLANET_MASS_RELATIVE_TO_EARTH
Adelbert Scrimgeour	8	dark blue	neptune	17
Ahmad Dobel	7	cyan	uranus	15
Almire Ties	7	cyan	uranus	15
Annemarie Joron	8	dark blue	neptune	17
Ardath Funnell	4	red	mars	0
Arnud Twinbourne	5	yellow	jupiter	318
Ax Tomaino	12	green	disk	0
Bettina Shergold	4	red	mars	0
Bradney Audiss	4	red	mars	0
Broddy Albrecht	9	black	pluto	0
Carley Dilon	8	dark blue	neptune	17
Chaunce Creber	9	black	pluto	0
Chloe Huskinson	10	purple	elephant	15
Clarence Guilder	3	blue	earth	1

## 4th Query Running:

In this panel, you can view how many users are currently using our application.




The screenshot shows a web application titled "CRYSTAL GAZING". On the left, there are input fields for "Hostname" (localhost), "User" (root), "Password" (masked with dots), and "Database" (horoscope). Below these is a "Disconnect" button. In the center, there is a text area containing the SQL query: "SELECT COUNT(\*) AS NumberOfUsers FROM users". Below the text area is a dropdown menu showing "Query 4" and a "Run Query" button. To the right of the query text area is a large empty box labeled "Output". At the bottom of the interface, there is a table with one row and one column. The column header is "NumberOfUsers" and the row value is "101".

NumberOfUsers
101



## 5th Query Running:

In this panel, you can see all of the information from the users who used our application.

— □ ×

### CRYSTAL GAZING

**Hostname**

**User**

**Password**

**Database**

Disconnect

Query 5 ▼

Run Query


SELECT \* FROM users

**Output**

USER_ID	USER_FIRST_NAME	USER_LAST_NAME	USER_REGISTRAT...	USER_Birth_Date	USER_EMAIL	PLANET_ID	STAR_ID
1	Heather	Voden	2020-04-21 00:00:00	2011-03-17	hvdodn0@icio.us	3	3
2	Roseline	Taber	2020-08-19 00:00:00	1984-04-02	rtaber1@pagesper...	4	4
3	Libby	Raleston	2020-04-15 00:00:00	2006-07-25	lraleston2@square...	7	7
4	Carley	Dilon	2019-12-25 00:00:00	2007-08-31	cdilon3@1und1.de	8	8
5	Nick	Ference	2020-03-15 00:00:00	1993-06-07	nference4@scienc...	6	6
6	Romona	Syer	2020-10-01 00:00:00	1995-02-21	rsyer5@bravesites....	2	2
7	Lilian	Brownsworth	2020-05-22 00:00:00	1987-08-30	lbrownsworth6@fre...	8	8
8	Edithe	Di Boldi	2019-12-21 00:00:00	2004-04-27	ediboldi7@forbes.c...	4	4
9	Isahella	Brabender	2020-10-07 00:00:00	2001-04-28	lbrabender8@w3.org	4	4
10	Lidia	Hanford	2020-02-16 00:00:00	1982-09-06	lhanford9@rotki.com	9	9
11	Salim	Bartlett	2020-03-23 00:00:00	1998-03-08	sbartletta@amazon...	3	3
12	Rainer	Aspey	2020-01-18 00:00:00	2008-08-26	raspeyb@spotify.co...	8	8
13	Mariann	Vergine	2020-08-04 00:00:00	2003-10-02	mverginec@goodre...	10	10
14	Ros	Fairbourn	2019-11-19 00:00:00	1999-11-12	rfairbourn@natch...	11	11

## 6th Query Running:

In this panel, this screen displays all of the planet horoscope description for a particular planet ID. The PLANET\_ID must be a number between 1 and 12.

— □ ×

### CRYSTAL GAZING

Hostname

localhost

User

root

Password

••••••••

Database

horoscope

Disconnect

Query 6 ▼

Run Query

PLANET\_ID

2

SELECT \* FROM planet\_horoscope\_description WHERE planet\_id=?

Output


PLANET_HOROSCOPE_ID	PLANET_ID	PLANET_HOROSCOPE_DESCRIPTION
7	2	If you feel you are right, stand firmly by your convictions.
8	2	Work first, but make sure to play later.
9	2	Stop letting other people stand in your way.
10	2	The greatest risk is not taking one.
11	2	Seek out a new environment if you're stuck in a rut.
12	2	If you haven't got it, just fake it!
67	2	You're doing great! Keep persevering.

## 7th Query Running:

In this panel, you can retrieve all users that have a particular pattern in their name.

To get a USER\_FIRST\_NAME that begins with a certain pattern type '%' before desired letters.

To get a USER\_FIRST\_NAME that ends with a certain pattern type '%' after desired letters

CRYSTAL GAZING— □ ×

Hostname

User

Password

Database

localhost

root

••••••••••

horoscope

Disconnect

Query 7 ▼

Run Query

Output

USER\_FIRST\_NAME

Ph%

SELECT user\_first\_name,user\_last\_name FROM users WHERE user\_first\_name LIKE ?

user_first_name	user_last_name
Philippa	Joder
Philomena	Milsap

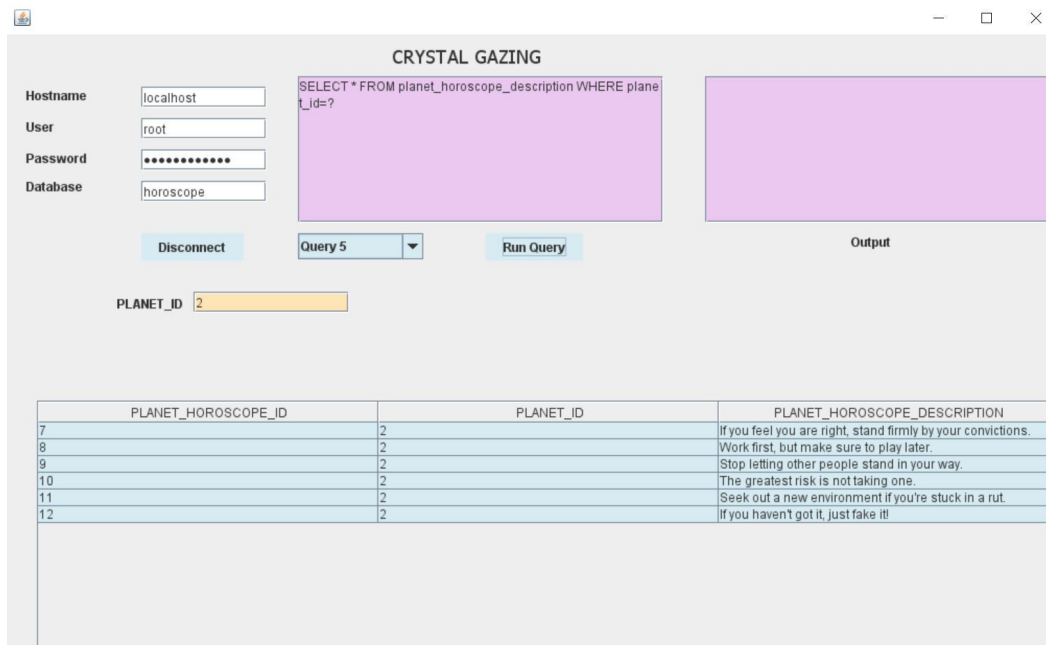
## 8th Query Running:

In this panel, you can insert a new planet horoscope description for a particular planet ID.

Before the insertion:

The PLANET\_ID must be between 1 and 12.

Enter following details:



CRYSTAL GAZING

Hostname: localhost  
User: root  
Password: \*\*\*\*\*  
Database: horoscope

Disconnect Query 5 Run Query

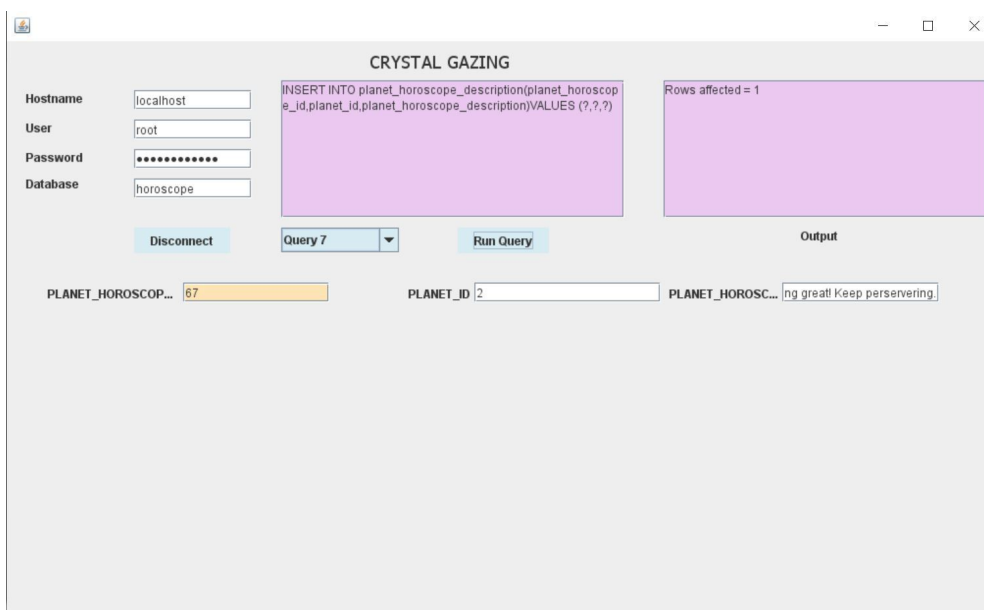
PLANET\_ID 2

PLANET_HOROSCOPE_ID	PLANET_ID	PLANET_HOROSCOPE_DESCRIPTION
7	2	If you feel you are right, stand firmly by your convictions.
8	2	Work first, but make sure to play later.
9	2	Stop letting other people stand in your way.
10	2	The greatest risk is not taking one.
11	2	Seek out a new environment if you're stuck in a rut.
12	2	If you haven't got it, just fake it!

The PLANET\_HOROSCOPE\_ID must be a number greater than 67.

The PLANET\_ID must be between 1 and 12.

The PLANET\_HOROSCOPE must be a string containing new desired horoscope description.



CRYSTAL GAZING

Hostname: localhost  
User: root  
Password: \*\*\*\*\*  
Database: horoscope

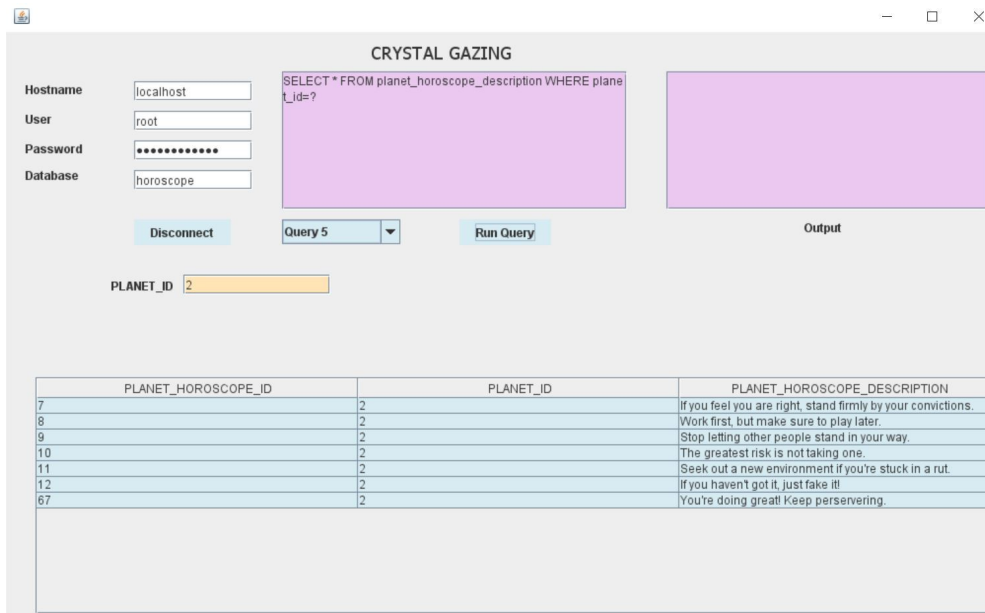
Disconnect Query 7 Run Query

PLANET\_HOROSCOPE\_ID 67 PLANET\_ID 2 PLANET\_HOROSCOPE\_DESCRIPTION ng great! Keep perservering

PLANET_HOROSCOPE_ID	PLANET_ID	PLANET_HOROSCOPE_DESCRIPTION
7	2	If you feel you are right, stand firmly by your convictions.
8	2	Work first, but make sure to play later.
9	2	Stop letting other people stand in your way.
10	2	The greatest risk is not taking one.
11	2	Seek out a new environment if you're stuck in a rut.
12	2	If you haven't got it, just fake it!
67	2	ng great! Keep perservering

After the insertion:

The PLANET\_ID must be between 1 and 12.



CRYSTAL GAZING

Hostname: localhost  
User: root  
Password: .....  
Database: horoscope

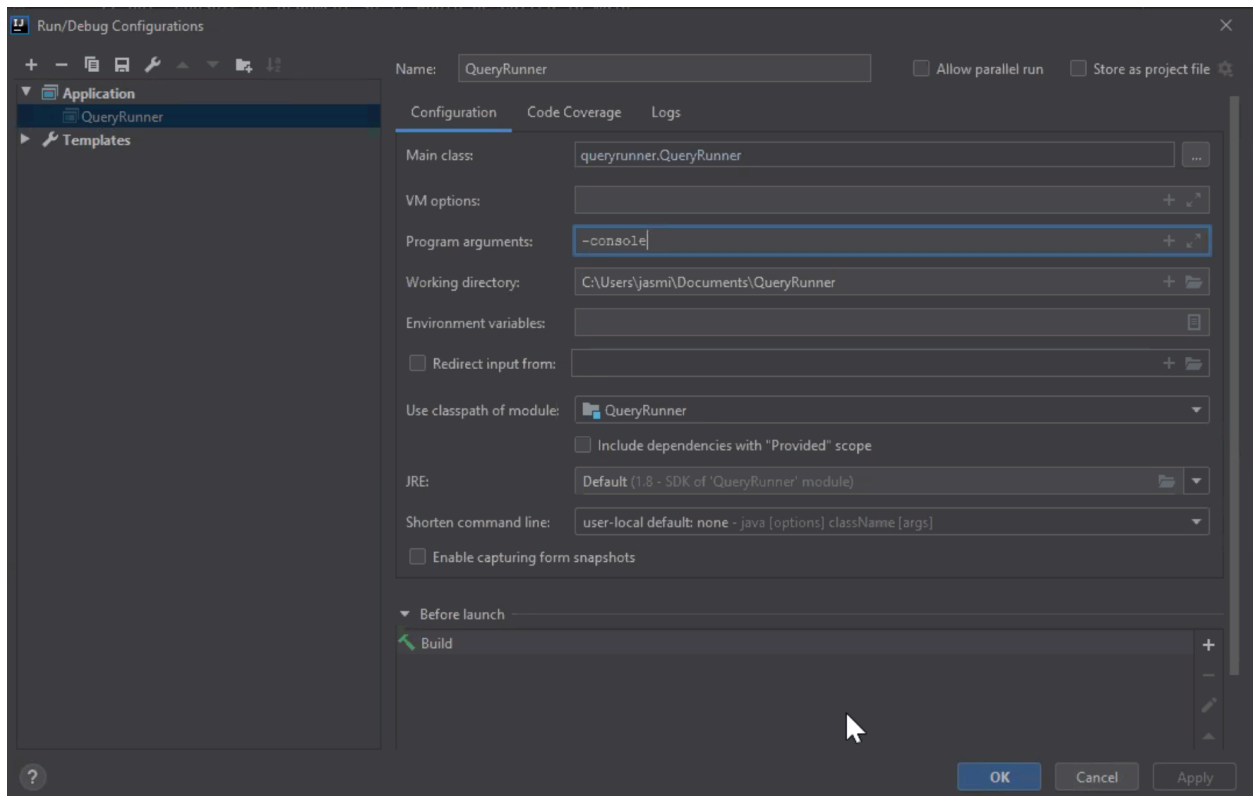
Disconnect Query 5 Run Query

PLANET\_ID 2

PLANET_HOROSCOPE_ID	PLANET_ID	PLANET_HOROSCOPE_DESCRIPTION
7	2	If you feel you are right, stand firmly by your convictions.
8	2	Work first, but make sure to play later.
9	2	Stop letting other people stand in your way.
10	2	The greatest risk is not taking one.
11	2	Seek out a new environment if you're stuck in a rut.
12	2	If you haven't got it, just fake it!
67	2	You're doing great! Keep persevering.

## Running the Application on the Console:

1. Click on the QueryRunner class
2. Click on the 'run' tab, then 'edit configurations' then next to 'Program arguments' type "-console"



3. Click 'Apply' then 'Ok'
4. Click 'build', then 'run' Press enter
5. Put in your database credentials. For the cloud it is the following:  
hostname: cs100  
username: mm\_cpsc502101team02  
password: mm\_cpsc502101team02Pass-  
Database: mm\_cpsc502101team02
6. Press enter

- The following interface will display:

```
Yay! You are now connected to the horoscope database.  
  
How many queries do you want to run?
```

- Enter the number of queries you want to run.

```
How many queries do you want to run?  
3
```

- The query choices will then be displayed:

```
Do you want to continue? Type 'continue' to continue or type 'exit' to leave.  
continue  
Which query do you want?  
1) SELECT planet_horoscope_description FROM planet_horoscope_description WHERE planet_id =? ORDER BY RAND() LIMIT 1  
2) SELECT star_horoscope_description FROM star_horoscope_description WHERE star_id =? ORDER BY RAND() LIMIT 1  
3) SELECT CONCAT(users.user_first_name, ' ',users.user_last_name), planet.PLANET_ID, planet.PLANET_COLOR, planet.PLANET_NAME, planet.PLANET_MASS_RELATIVE_TO_EARTH FROM users JOIN planet ON users.planet_id = planet.planet_id OR  
4) SELECT COUNT(*) AS NumberOfUsers FROM users  
5) SELECT * FROM users  
6) SELECT * FROM planet_horoscope_description WHERE planet_id=?  
7) SELECT user_first_name,user_last_name FROM users WHERE user_first_name LIKE ?  
8) INSERT INTO planet_horoscope_description(planet_horoscope_id,planet_id,planet_horoscope_description)VALUES (?,?,?)
```

- Select the number that is displayed next to the query you want to run
- If the query needs parameters, the console will prompt you for the parameter(s)
- After pressing enter, the query results will be displayed
- Type exit to leave the application