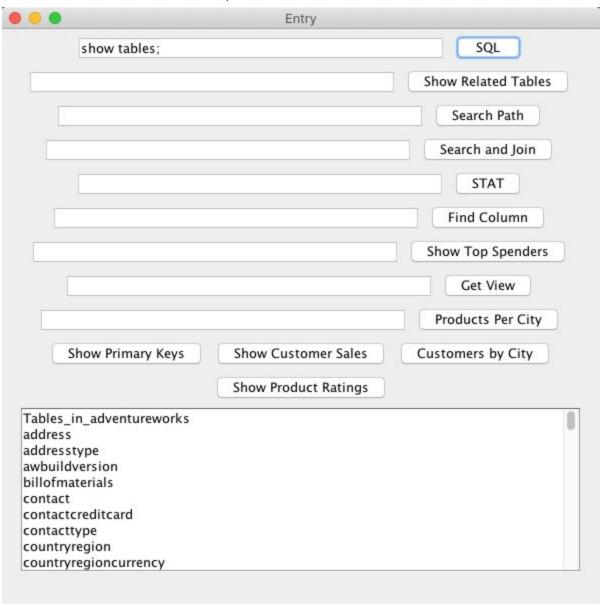
Program Instruction (Project 2 Phase 3)

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- 1. Using the Eclipse IDE, press play button to run the GUI.java program.
 - a. If not using Eclipse, edit all instances of "com.mysql.cj.jdbc.Driver" to be "com.mysql.jdbc.Driver" in the JDBCCmdLine.java file.
- 2. You will see the following interface:
- 3. To run a command, enter the parameters in the text field box if there are parameters, and press the button next to the textbox to run the corresponding command.
- 4. Here is how to run each command and how to enter the parameters:
 - a. SQL
 - i. <command>;



b. Show Related Tables

i.

	Entry	
		SQL
ustomer		Show Related Tables
		Search Path
		Search and Join
		STAT
		Find Column
		Show Top Spenders
		Get View
		Products Per City
Show Primary Keys	Show Customer Sales	Customers by City
	Show Product Ratings	
stomeraddress dividual ore orecontact		

- c. Search Path
 - i. <table1> <table2>

customer product Search Path

The output will be printed to the text field.

- d. Search and Join
 - i. <table1> <table2>

product vendor Search and Join

The output will be printed to the text field.

e. STAT

i. <column name>

		Entry	
			SQL
			Show Related Tables
			Search Path
			Search and Join
	vendor VendorID		STAT
			Find Column
			Show Top Spenders
			Get View
			Products Per City
Sh	now Primary Keys	Show Customer Sales	Products Per City Customers by City
Sh	now Primary Keys	Show Customer Sales Show Product Ratings	
Sh MxValue 104 Median 52.5000	MinValue		
MxValue 104 Median 52.5000	MinValue 1	Show Product Ratings AvgValue 52.5000	
MxValue 104 Median 52.5000	MinValue 1 0 0-18.17 *********	Show Product Ratings AvgValue 52.5000	Customers by City
MxValue 104 Median 52.5000 1.00	MinValue 1 0 0-18.17 ************************************	Show Product Ratings AvgValue 52.5000 .530	Customers by City
MxValue 104 Median 52.5000 1.00 18.1 35.3	MinValue 1 0 0-18.17 *********	Show Product Ratings AvgValue 52.5000 530	Customers by City

f. Show primary keys
i. There are no parameters; Click the button "Show Primary Keys" to run.

•	Entry	
		SQL
		Show Related Tables
		Search Path
		Search and Join
		STAT
		Find Column
		Show Top Spenders
		Get View
		Products Per City
Show Primary Keys	Show Customer Sales	Customers by City
	Show Product Ratings	
ndoraddress, AddressID) ndorcontact, VendorID) ndorcontact, ContactID) rkorder, WorkOrderID) rkorderrouting, WorkOrder rkorderrouting, ProductID) rkorderrouting, OperationS config, variable)		

g. Customers by Cityi. There are no parameters; Click the button "Customers by City" to run.

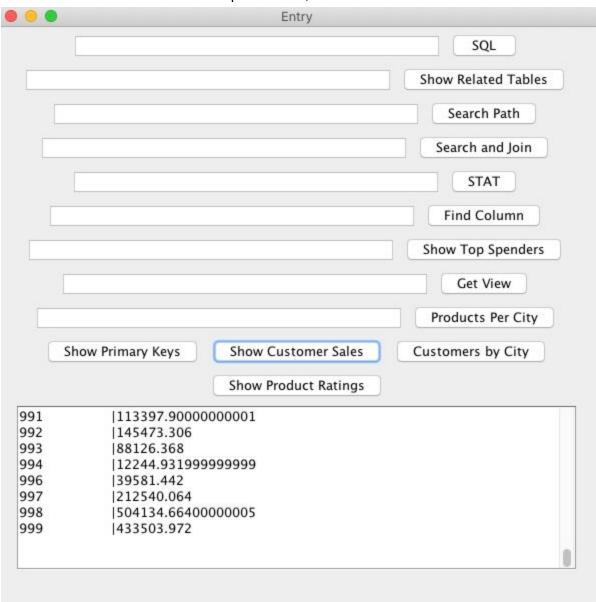
	Entry
	SQL
	Show Related Tables
	Search Path
	Search and Join
Y-	STAT
-3/	Find Column
	Show Top Spenders
	Get View
	Get View Products Per City
Show Primary Keys	
Show Primary Keys	Products Per City
Sooke 97 Gateshead 55 Bury 56 Chatou 56	Products Per City Show Customer Sales Customers by City
Sooke 97 Gateshead 55 Bury 56	Products Per City Show Customer Sales Customers by City

h. Find Column

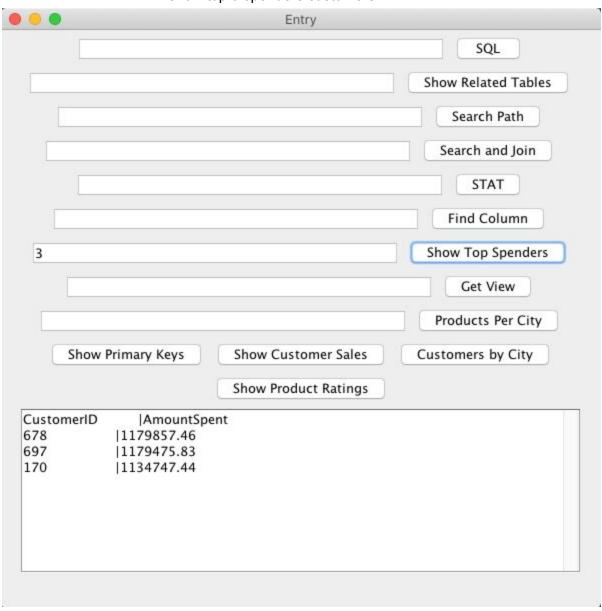
0 0	Entry	
		SQL
		Show Related Tables
	Att.	Search Path
		Search and Join
		STAT
VendorID		Find Column
		Show Top Spenders
		Get View
		Products Per City
Show Primary Keys	Show Customer Sales	Customers by City
	Show Product Ratings	
COLUMN_NAME TABLE /endorID productver /endorID purchaseor /endorID vendor /endorID vendoradd	rderheader	

i. Show Customer Sales

i. There are no parameters; Click the button "Show Customer Sales" to run.



- j. Show Top Spenders (customers who spend the most)
 - i. Optional parameter: number of results you want to be shown. (ex: 3) → will show top 3 spenders/customers.



ii. No parameters: Click the button "Show Top Spenders" to run.

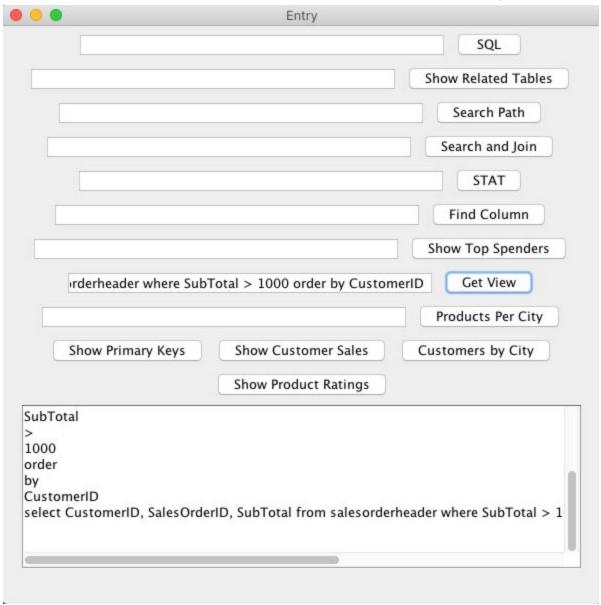
	Entry	
		SQL
		Show Related Tables
		Search Path
		Search and Join
		STAT
		Find Column
		Show Top Spenders
		Get View
		Products Per City
Show Primary Keys	Show Customer Sales	Customers by City
	Show Product Ratings	
1134747.44		
1084439.02		
979881.34		
	1134747.44 1084439.02 1074154.3 1045197.04 1005539.71 984324.04 983871.93	Show Primary Keys Show Customer Sales Show Product Ratings 1134747.44 1084439.02 1074154.3 1045197.04 1005539.71 984324.04 983871.93

k. Show Product Ratings

<u> </u>	Entry
	SQL
	Show Related Tables
1	Search Path
	Search and Join
	STAT
	Find Column
	Show Top Spenders
	Get View
	Products Per City
Show Primary Key	Show Customer Sales Customers by City
	Show Product Ratings
roductID Rating 37 4 09 5 98 5	

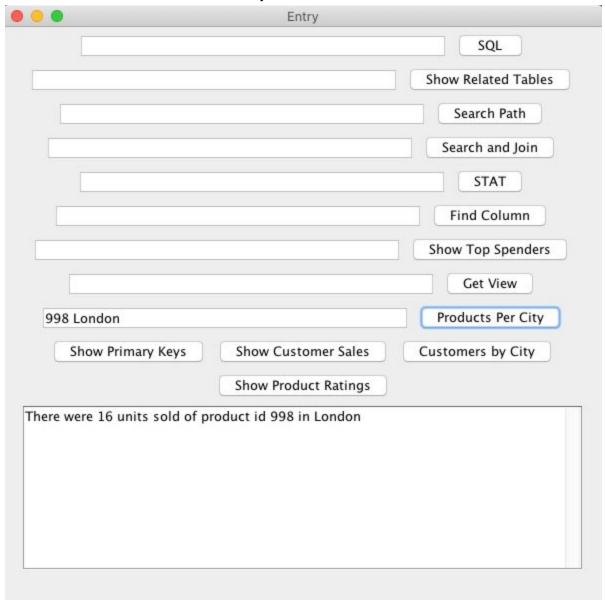
I. Get View

- i. <view-name> <sql query>
- ii. Example entry: view_test select CustomerID, SalesOrderID, SubTotal from salesorderheader where SubTotal > 1000 order by CustomerID



m. Products Per City

i. <ProductID> <City>



5. After the button is clicked the output of the command will show up in the text area. Use the scroll bars to navigate through the output.

N. Get DbSchema

 Ensure that your dot file for the database schema is in the same folder as your Java Gui code. This dot file will then be given to the Graphviz api to generate the corresponding pdf. 2. To do this in the GUI, click the GetDbSchema button. This will generate the schema.pdf in the same folder as your dot file.

Error Handling

• The error handling for invalid error input is that a message is printed to the terminal.