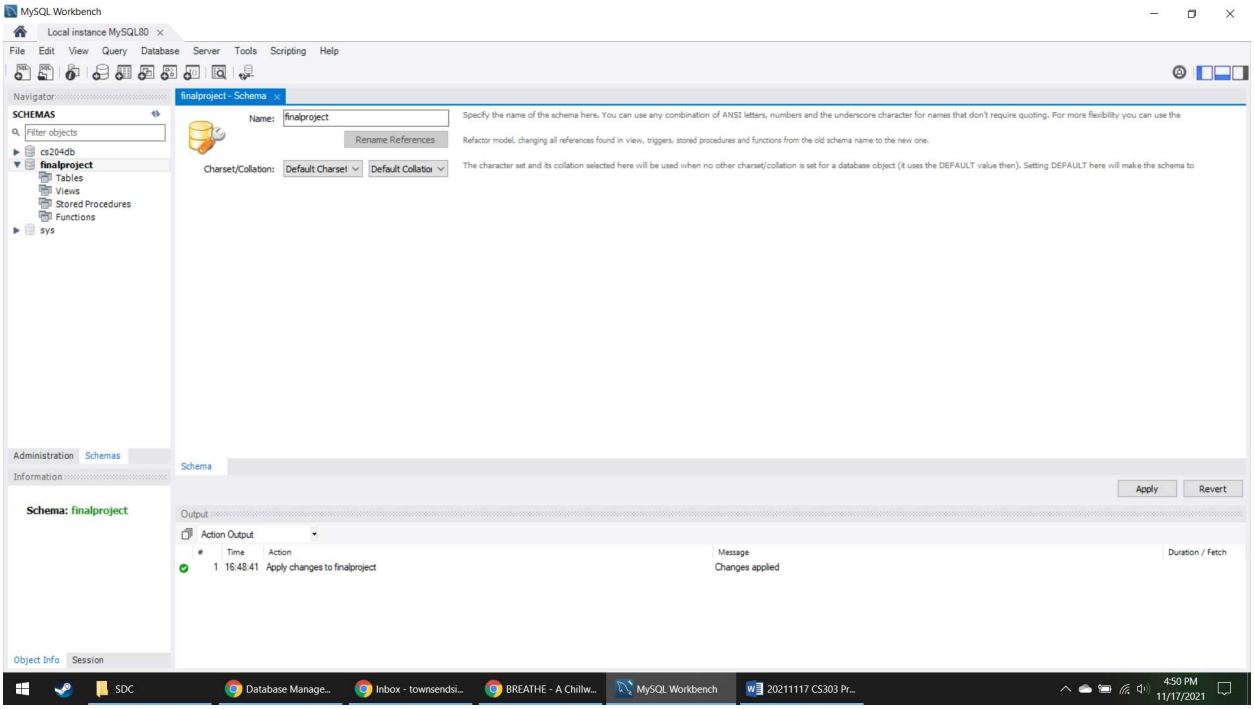
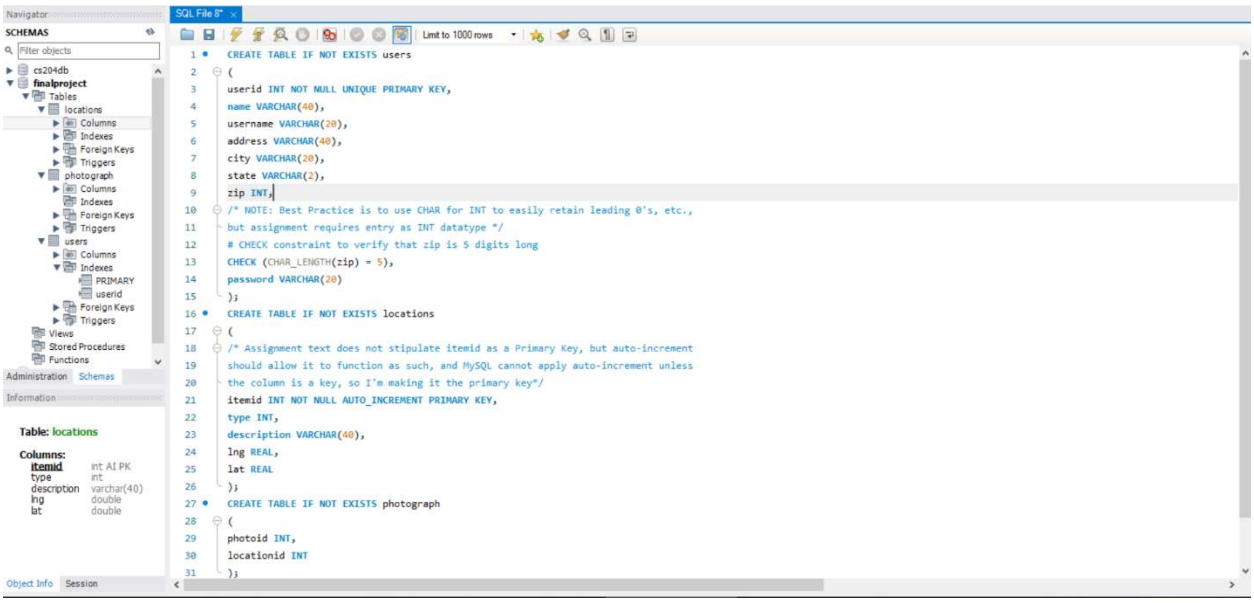
CompSci 303 Project

NOTE: All SQL queries are provided in their entirety in the screenshots for each project prompt, inside of the required screenshots demonstrating the outcome of the query.

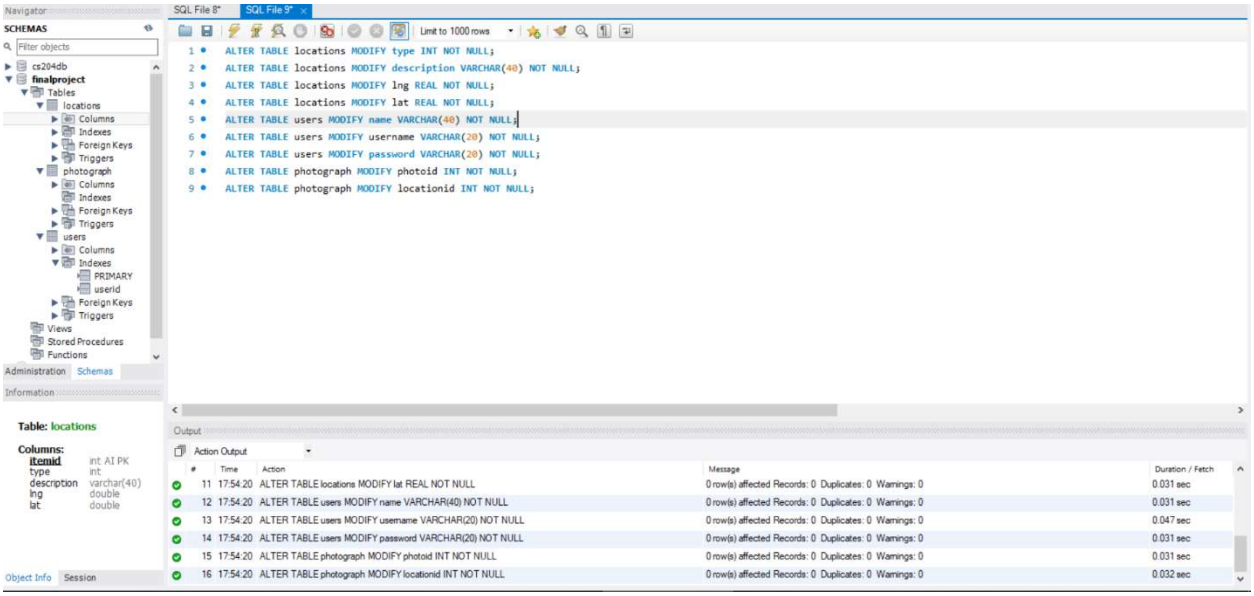
Prompt 1: Create the Schema/Database



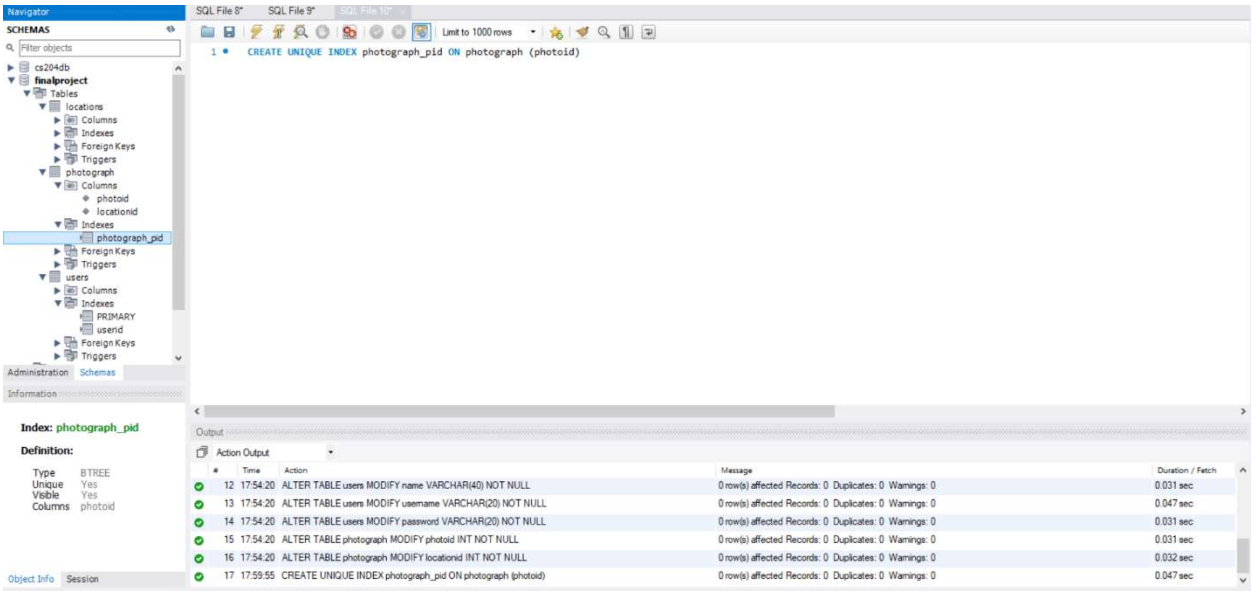
Prompt 2: Create Tables



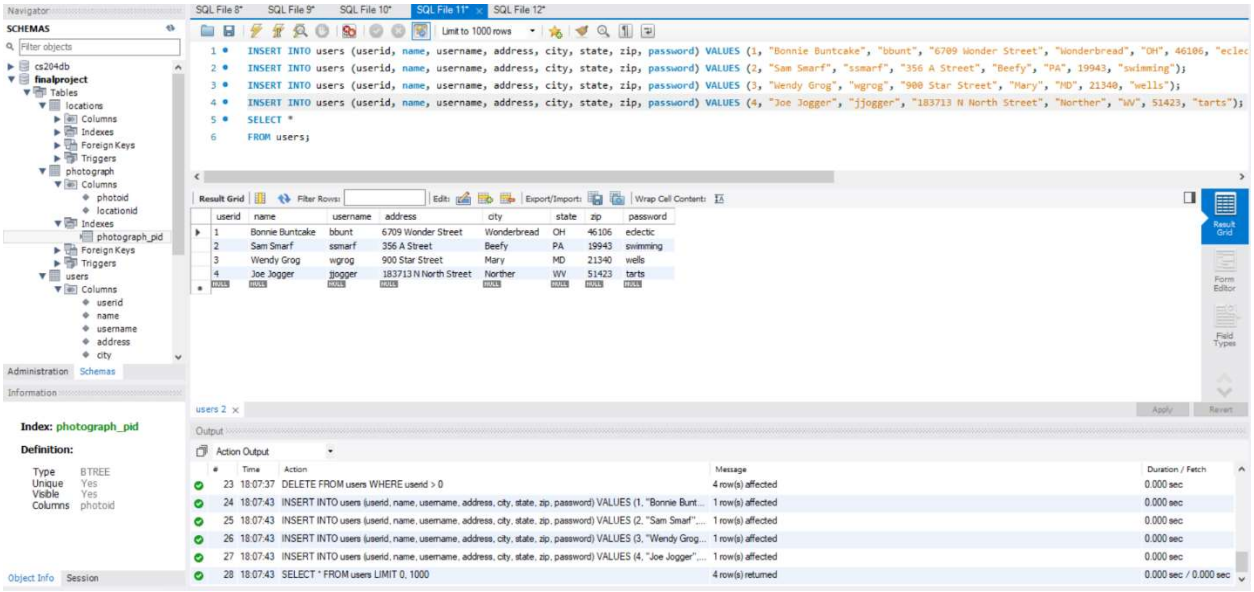
Prompt 3: Alter Tables



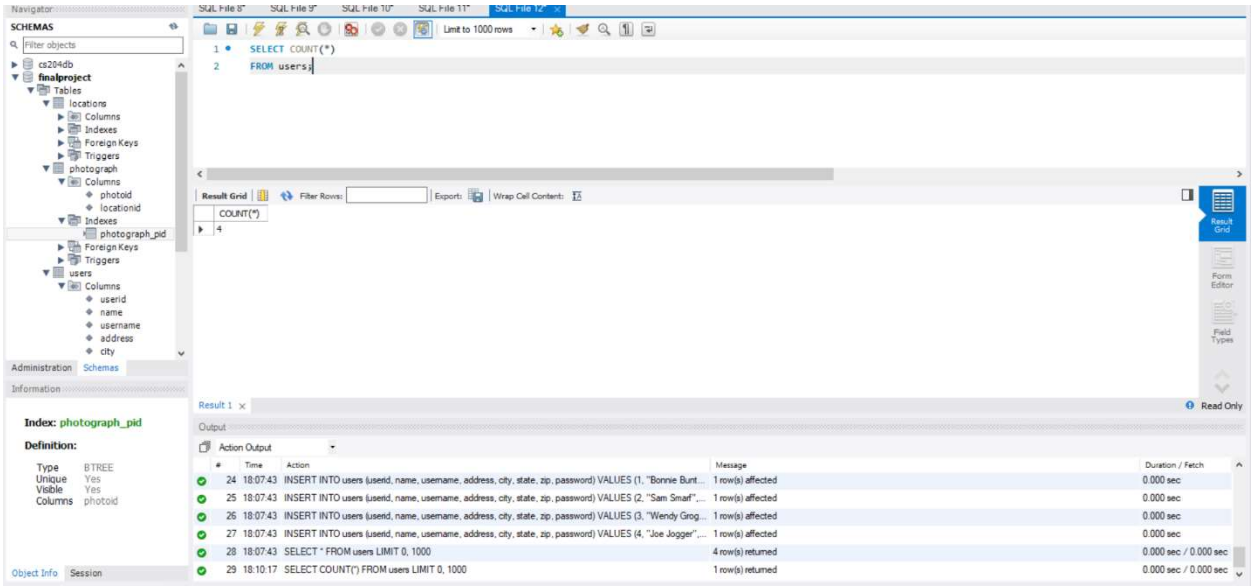
Prompt 4: Create Index



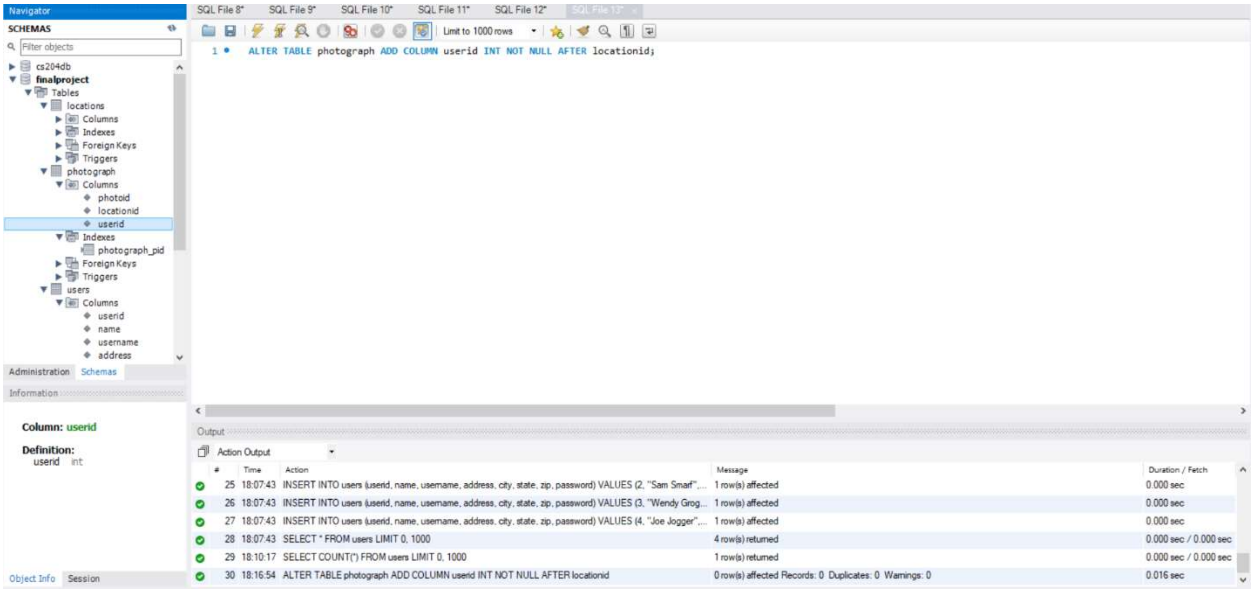
Prompt 5: Enter Data



Prompt 6: Count Rows

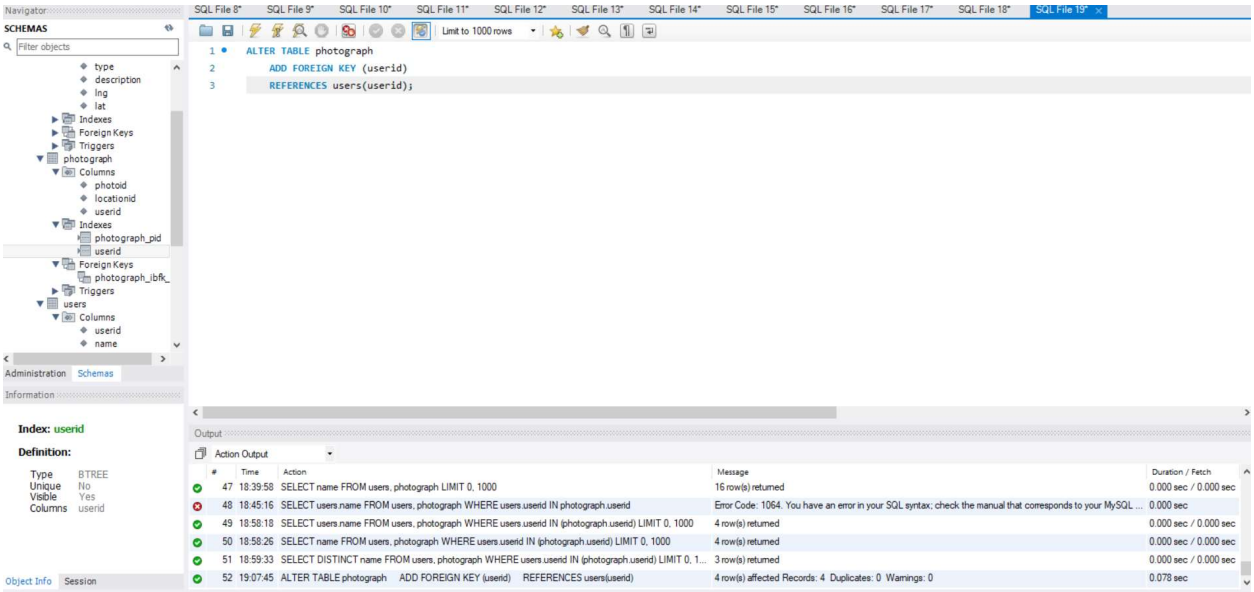


Prompt 7: Add Column

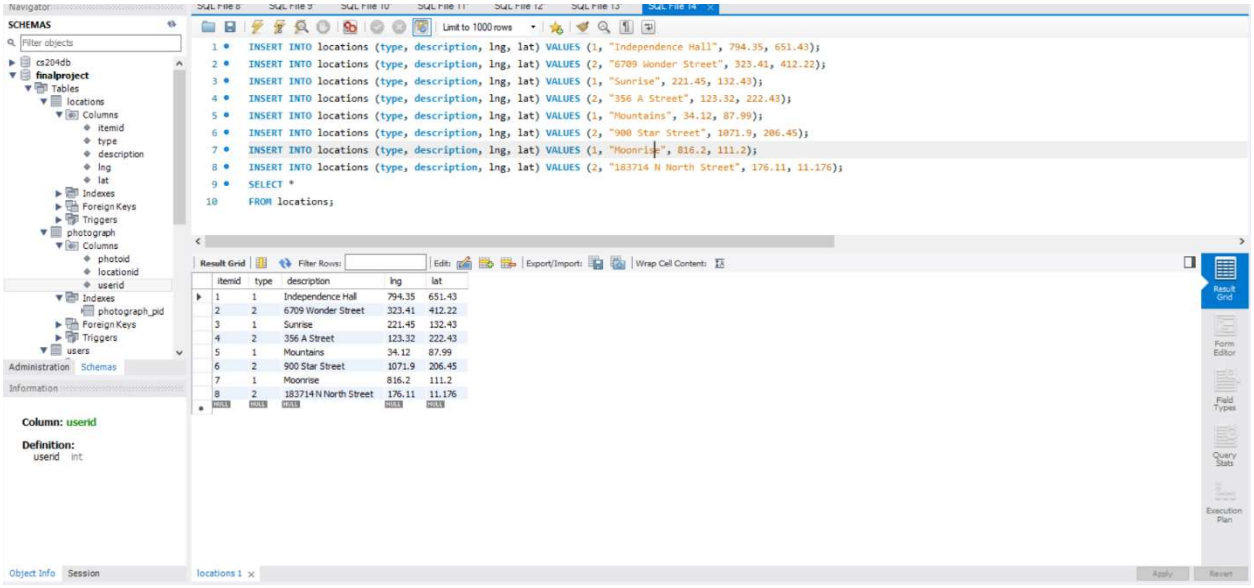


Prompt 8: Issue with New Column

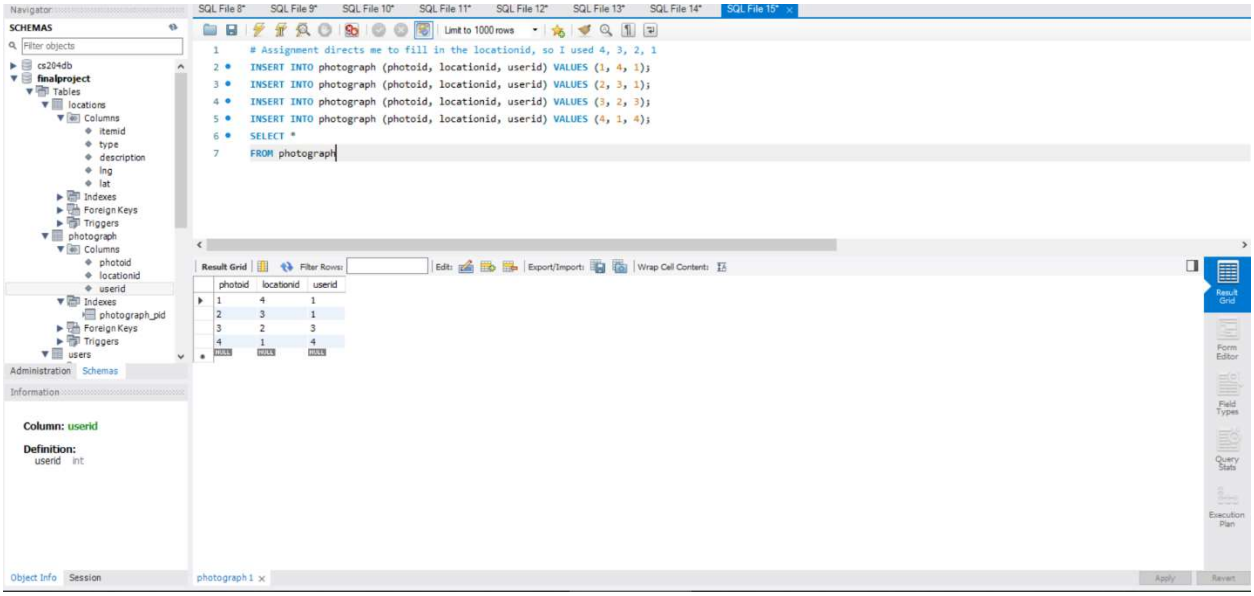
The column will technically work just fine, but 'userid' represents a relationship which we did not incorporate into the database. When we add a picture to the 'photograph' table, that picture was taken by a user from the 'users' table, who is uniquely identified by their 'userid'. 'userid' in 'users' is a primary key, so its usage in 'photographs' makes it a foreign key, depicting the relationship between photo and user. To fix this, we would use ALTER TABLE to provide a FOREIGN KEY:



Prompt 9: Location and Photograph Table Updates

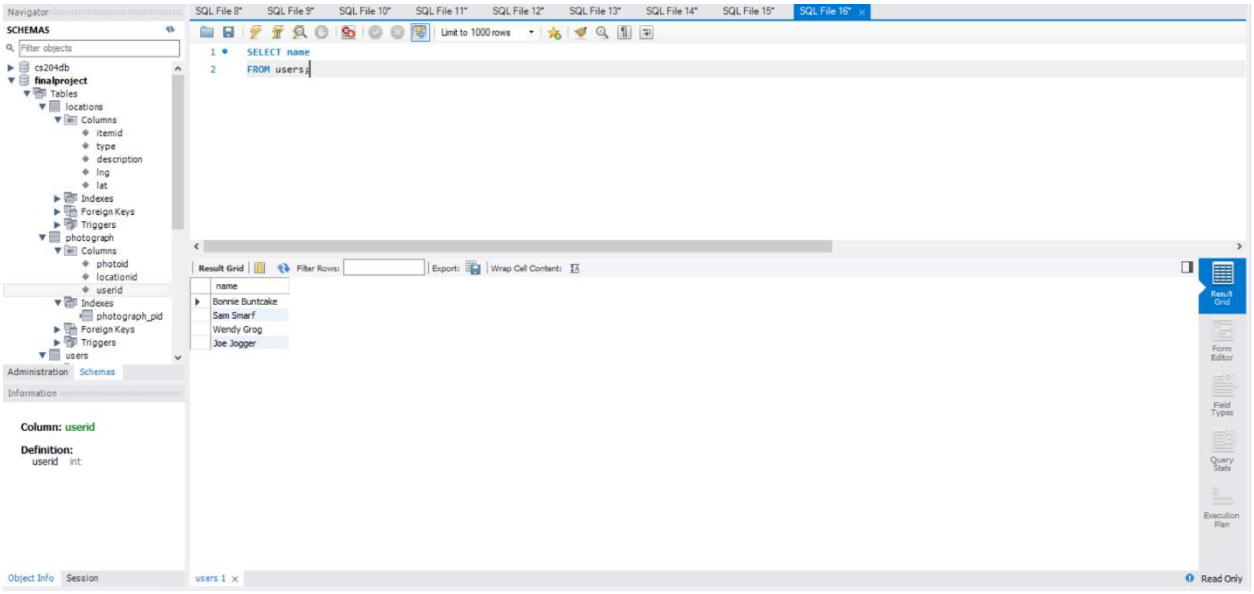


^^ locations updates ^^

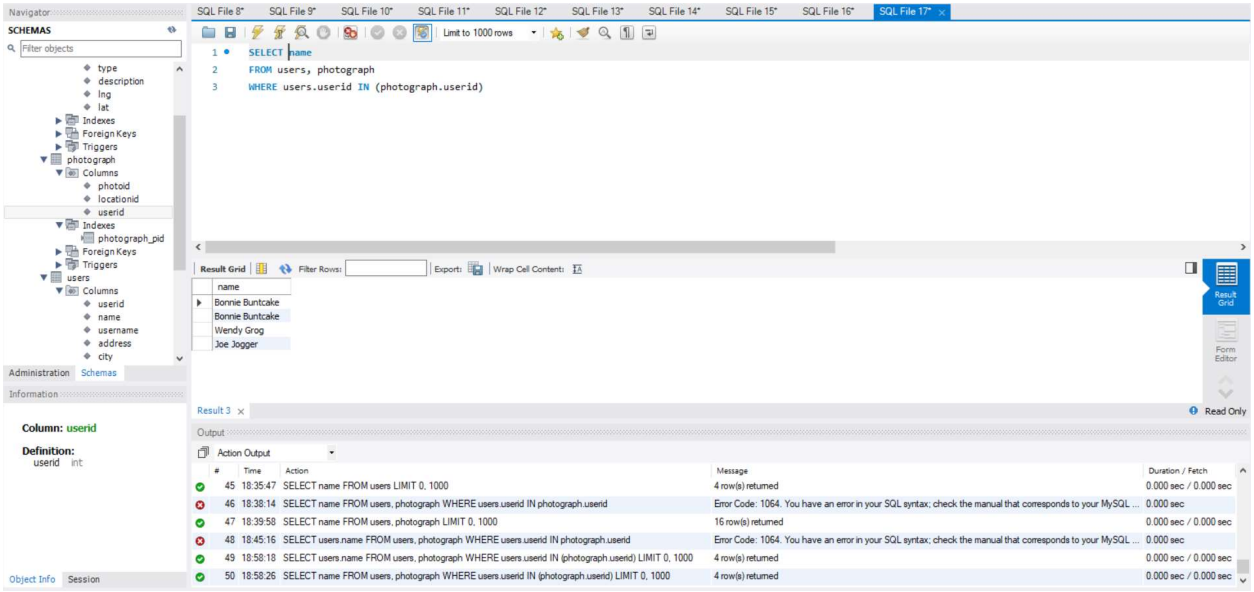


^^ photograph updates ^^

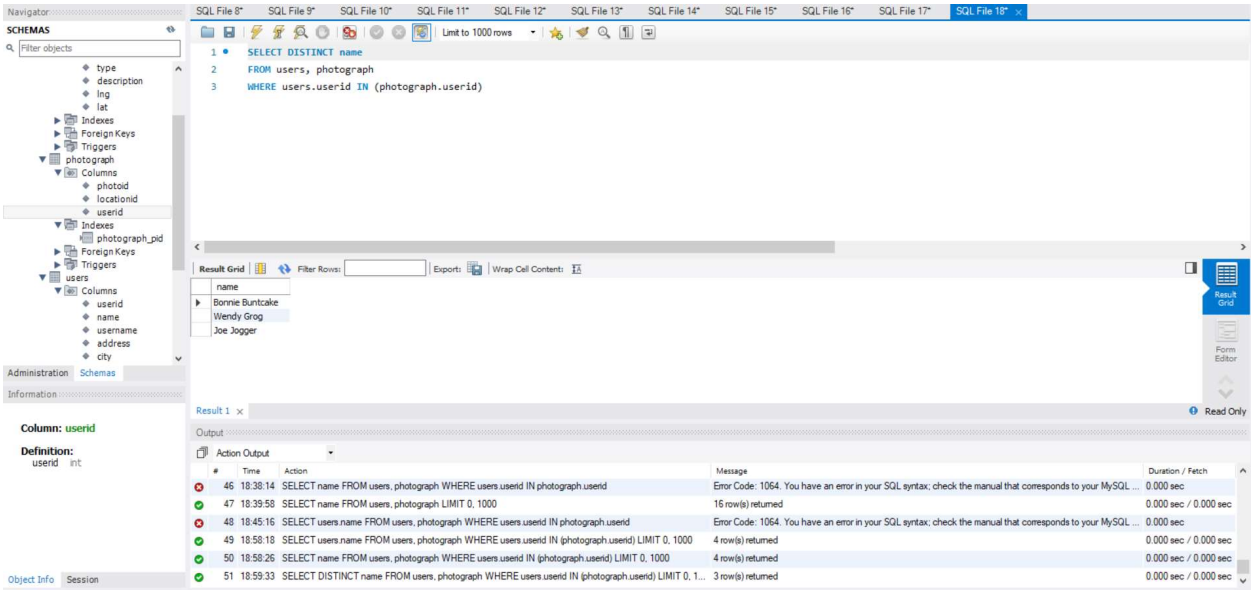
Prompt 10: Users



Prompt 11: Who's Taking Pictures?



Prompt 12: Unique Names


Navigator
SCHEMAS
Filter objects
type
description
lng
lat
Indexes
Foreign Keys
Triggers
photograph
Columns
photoid
locationid
userid
Indexes
photograph_pid
Foreign Keys
Triggers
users
Columns
userid
name
username
address
city
Administration
Schemas
Information
Column: userid
Definition:
userid int
Object Info
Session
SQL File 8*
SQL File 9*
SQL File 10*
SQL File 11*
SQL File 12*
SQL File 13*
SQL File 14*
SQL File 15*
SQL File 16*
SQL File 17*
SQL File 18*
Limit to 1000 rows
1 SELECT DISTINCT name
2 FROM users, photograph
3 WHERE users.userid IN (photograph.userid)
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
name
Bonnie Buntcake
Wendy Grog
Joe Jogger
Result Grid
Form Editor
Result 1
Read Only
Output
Action Output
Time Action Message Duration / Fetch
46 18:38:14 SELECT name FROM users, photograph WHERE users.userid IN photograph.userid Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL ... 0.000 sec
47 18:39:58 SELECT name FROM users, photograph LIMIT 0, 1000 16 row(s) returned 0.000 sec / 0.000 sec
48 18:45:16 SELECT users.name FROM users, photograph WHERE users.userid IN photograph.userid Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL ... 0.000 sec
49 18:58:18 SELECT users.name FROM users, photograph WHERE users.userid IN (photograph.userid) LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.000 sec
50 18:58:26 SELECT name FROM users, photograph WHERE users.userid IN (photograph.userid) LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.000 sec
51 18:59:33 SELECT DISTINCT name FROM users, photograph WHERE users.userid IN (photograph.userid) LIMIT 0, 1... 3 row(s) returned 0.000 sec / 0.000 sec

asdf