

Lab 6 Report Images:

First I logged into my designated lab machine - wch 133-38.

Next I copied over the new and needed files from the lab 6 zip folder to the /tmp folder.

Then I ran source ./startPostgreSQL.sh inside the /tmp folder

Next I ran source ./createPostgreSQL.sh

Next I prepared the database with the given data from lab 5 with:

```
cp *.txt /tmp/$USER/myDB/data/
```

```
asher011@wch133-38 $ cp *.txt /tmp/$USER/myDB/data/
/tmp
```

```
psql -h localhost -p $PGPORT $USER"_DB" < chapter5.sql
```

```
/tmp
asher011@wch133-38 $ psql -h localhost -p $PGPORT $USER"_DB" < chapter5.sql
ERROR: table "student" does not exist
ERROR: table "faculty" does not exist
ERROR: table "class" does not exist
ERROR: table "enrolled" does not exist
ERROR: table "emp" does not exist
ERROR: table "works" does not exist
ERROR: table "dept" does not exist
ERROR: table "flights" does not exist
ERROR: table "aircraft" does not exist
ERROR: table "certified" does not exist
ERROR: table "employees" does not exist
ERROR: table "suppliers" does not exist
ERROR: table "parts" does not exist
ERROR: table "catalog" does not exist
ERROR: table "sailors" does not exist
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "student_pkey" for table "student"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "faculty_pkey" for table "faculty"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "class_pkey" for table "class"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "enrolled_pkey" for table "enrolled"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "emp_pkey" for table "emp"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "dept_pkey" for table "dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "works_pkey" for table "works"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "flights_pkey" for table "flights"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "aircraft_pkey" for table "aircraft"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "employees_pkey" for table "employees"
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "employees_pkey" for table "employees"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "certified_pkey" for table "certified"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "suppliers_pkey" for table "suppliers"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "parts_pkey" for table "parts"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "catalog_pkey" for table "catalog"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "sailors_pkey" for table "sailors"
CREATE TABLE
COPY 4
COPY 9
COPY 11
/tmp
```

Next I provide the database with my queries.sql file (this time for lab 6)

```
psql -h localhost -p $PGPORT $USER"_DB" < queries6.sql
```

```

/tmp
asher011@wch133-38 $ psql -h localhost -p $PGPORT $USER"_DB" < queries6.sql
      sname          | count
-----+-----
Big Red Tool and Die |      3
Perfunctory Parts    |      2
Acme Widget Suppliers |      3
Alien Aircraft Inc.  |      3
(4 rows)

      sname          | count
-----+-----
Big Red Tool and Die |      3
Acme Widget Suppliers |      3
Alien Aircraft Inc.  |      3
(3 rows)

 sname | count
-----+-----
(0 rows)

      sname          | max
-----+-----
Perfunctory Parts    | 12.50
(1 row)

```

/tmp
asher011@wch133-38 \$

I next ran my updated EmbeddedSQL.java file by running
source ./compile.sh

```
alejandro@Alejandros-Laptop: ~  
/tmp  
asher011@wch133-38 $ source ./compile.sh  
  
*****  
User Interface  
*****  
  
Connecting to database...Connection URL: jdbc:postgresql://localhost:1025/asher011_DB  
  
Done  
MAIN MENU  
-----  
0. Find the pid of parts with cost lower than $____ (example)  
1. Find the total number of parts supplied by each supplier  
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts  
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies  
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies  
5. Find the name of parts with cost lower than $____  
6. Find the address of the suppliers who supply _____ (pname)  
9. < EXIT  
Please make your choice: 0  
Enter cost: $2  
sid    pid    cost  
1      3      0.50  
1      4      0.50  
2      3      0.55  
3      9      1.00  
total row(s): 4  
MAIN MENU  
-----  
0. Find the pid of parts with cost lower than $____ (example)  
1. Find the total number of parts supplied by each supplier  
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts  
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies  
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies  
5. Find the name of parts with cost lower than $____
```

```
alejandro@Alejandros-Laptop: ~  
5. Find the name of parts with cost lower than $____  
6. Find the address of the suppliers who supply _____ (pname)  
9. < EXIT  
Please make your choice: 1  
sname    count  
Big Red Tool and Die          3  
Perfunctory Parts            2  
Acme Widget Suppliers        3  
Alien Aircraft Inc.          3  
total row(s): 4  
MAIN MENU  
-----  
0. Find the pid of parts with cost lower than $____ (example)  
1. Find the total number of parts supplied by each supplier  
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts  
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies  
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies  
5. Find the name of parts with cost lower than $____  
6. Find the address of the suppliers who supply _____ (pname)  
9. < EXIT  
Please make your choice: 2  
sname    count  
Big Red Tool and Die          3  
Acme Widget Suppliers        3  
Alien Aircraft Inc.          3  
total row(s): 3  
MAIN MENU  
-----  
0. Find the pid of parts with cost lower than $____ (example)  
1. Find the total number of parts supplied by each supplier  
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts  
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies  
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies  
5. Find the name of parts with cost lower than $____  
6. Find the address of the suppliers who supply _____ (pname)  
9. < EXIT  
Please make your choice: 3
```

```

alejandro@Alejandros-Laptop: ~
Please make your choice: 3
total row(s): 0
MAIN MENU
-----
0. Find the pid of parts with cost lower than $____ (example)
1. Find the total number of parts supplied by each supplier
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies
5. Find the name of parts with cost lower than $____
6. Find the address of the suppliers who supply _____ (pname)
9. < EXIT
Please make your choice: 4
sname      max
Perfunctory Parts          12.50
total row(s): 1
MAIN MENU
-----
0. Find the pid of parts with cost lower than $____ (example)
1. Find the total number of parts supplied by each supplier
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies
5. Find the name of parts with cost lower than $____
6. Find the address of the suppliers who supply _____ (pname)
9. < EXIT
Please make your choice: 5
      Enter cost: $2
pname
Acme Widget Washer
7 Segment Display
total row(s): 2
MAIN MENU
-----
0. Find the pid of parts with cost lower than $____ (example)
1. Find the total number of parts supplied by each supplier
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies
5. Find the name of parts with cost lower than $____
6. Find the address of the suppliers who supply _____ (pname)
9. < EXIT
Please make your choice: 6
      Enter part name: '$7 Segment Display'
address
99999 Short Pier, Terra Del Fuego, TX 41
total row(s): 1
MAIN MENU
-----
0. Find the pid of parts with cost lower than $____ (example)
1. Find the total number of parts supplied by each supplier
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies
5. Find the name of parts with cost lower than $____
6. Find the address of the suppliers who supply _____ (pname)
9. < EXIT
Please make your choice: 6
      Enter part name: '$Acme Widget Washer'
address
1 Grub St., Potemkin Village, IL 61801
4 My Way, Bermuda Shorts, OR 90305
total row(s): 2
MAIN MENU
-----
0. Find the pid of parts with cost lower than $____ (example)
1. Find the total number of parts supplied by each supplier
2. Find the total number of parts supplied by each supplier who supplies at least 3 parts
3. For every supplier that supplies only green parts, print the name of the supplier and the total number of parts that he supplies
4. For every supplier that supplies green part and red part, print the name and the price of the most expensive part that he supplies
5. Find the name of parts with cost lower than $____
6. Find the address of the suppliers who supply _____ (pname)
9. < EXIT
Please make your choice: 9
Disconnecting from database...Done

Bye !
/tmp
asher011@wch133-38 $

```

I then ran `source ./stopPostgreDB.sh` to shut down the database.

In elearn I will submit both my `queries6.sql` file and my modified `EmbeddedSQL.java` file.
As well as these output images.