

7.1 Creating Database and Logging In

```

9:47 andreshung[AHM1A] t2.andres_hung_jennessa_sierra git(main) % psql postgres postgres
Password for user postgres:
Null display is "[null]".
psql (16.2 (Homebrew))
Type "help" for help.

[local]:5432 postgres@postgres=# \i test2tables.sql
DROP DATABASE
CREATE DATABASE
DROP ROLE
CREATE ROLE
You are now connected to database "test2" as user "postgres".
GRANT
Password for user test2:
You are now connected to database "test2" as user "test2".
CREATE TABLE
CREATE TABLE
CREATE TABLE
ALTER TABLE
ALTER TABLE
CREATE TABLE
ALTER TABLE
CREATE TABLE
ALTER TABLE
[local]:5432 test2@test2=> \d
List of relations
Schema | Name | Type | Owner
-----+-----+-----+-----
public | department | table | test2
public | email | table | test2
public | employee | table | test2
public | employee_department | table | test2
public | phone | table | test2
(5 rows)

[local]:5432 test2@test2=>

```

7.2 Inserting Data

```

[local]:5432 test2@test2=> \i test2data.sql
INSERT 0 6
INSERT 0 6
INSERT 0 9
INSERT 0 9
INSERT 0 7
department_code | department
-----+-----
EXEC | Executive
SALS | Sales
ADMN | Administration
FINA | Finance
HUMR | Human Resources
RDEV | Research and Development
(6 rows)

employee_number | first_name | last_name
-----+-----+-----
WILSONM | Marcia | Wilson
WILSONH | Henry | Wilson
CROMWELLW | William | Cromwell
BOLEYNA | Annita | Boleyn
RANGERJ | John | Ranger
GATESS | Sally | Gates
(6 rows)

employee | department
-----+-----
WILSONM | EXEC
WILSONH | FINA
CROMWELLW | SALS
CROMWELLW | ADMN
BOLEYNA | SALS
RANGERJ | SALS
RANGERJ | HUMR
RANGERJ | RDEV

```

7.3 Inserting Data (Continued)

```
WILSONM | EXEC
WILSONH | FINA
CROMMELLW | SALS
CROMMELLW | ADMN
BOLEYNA | SALS
RANGERJ | SALS
RANGERJ | HUMR
RANGERJ | RDEV
GATESS | RDEV
(9 rows)

employee | email
-----
WILSONM | Marcia.Wilson@MDC.com
WILSONH | Henry.Wilson@MDC.com
CROMMELLW | William.Cromwell@MDC.com
BOLEYNA | Annita.Wilson@MDC.com
BOLEYNA | Annita.Wilson@yahoo.com
BOLEYNA | Annita.Wilson@gmail.com
RANGERJ | John.Ranger@MDC.com
GATESS | Sally.Gates@MDC.com
GATESS | Sally.Wilson@protonmail.com
(9 rows)

employee | phone
-----
WILSONM | 723-543-1201
WILSONH | 723-543-1202
CROMMELLW | 723-543-1211
BOLEYNA | 723-543-1212
RANGERJ | 723-543-2000
RANGERJ | 581-666-7777
GATESS | 723-543-2020
(7 rows)

[local]:5432 test2@test2=>
```

7.4 Query 1 -- show the number of employees who work or participate in each department

```
[local]:5432 test2@test2=> \i test2queries.sql
department | count
-----
ADMN | 1
RDEV | 2
FINA | 1
SALS | 3
EXEC | 1
HUMR | 1
(6 rows)

[local]:5432 test2@test2=>
```

7.5 Query 2 -- show the departments who have more than 2 employees working in it

```
[local]:5432 test2@test2=> \i test2queries.sql
department | count
-----+-----
SALS      |      3
(1 row)

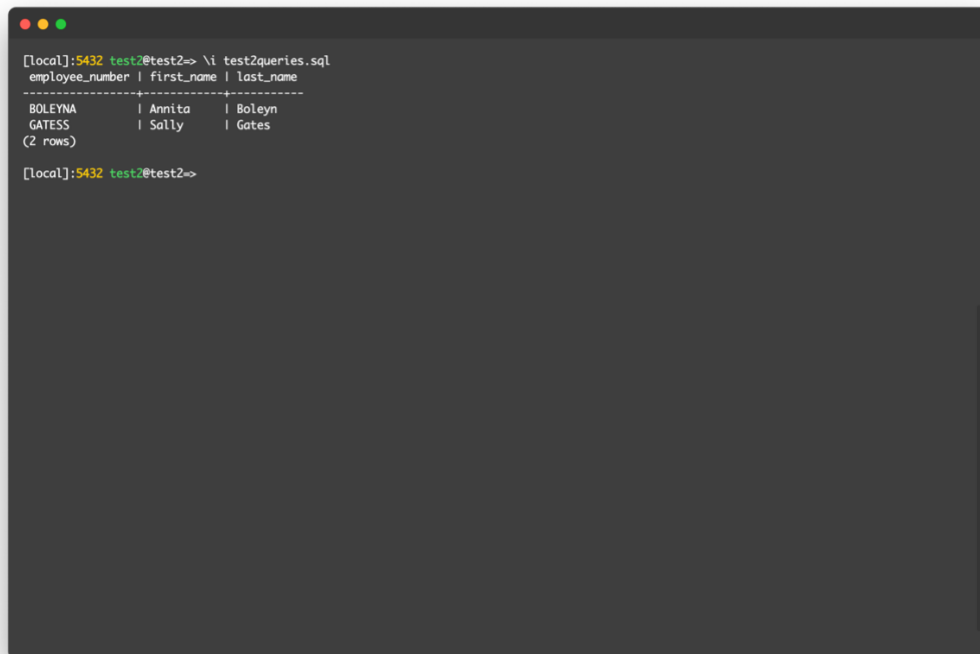
[local]:5432 test2@test2=>
```

7.6 Query 3 -- show the employee details and their department details

```
[local]:5432 test2@test2=> \i test2queries.sql
first_name | last_name | department
-----+-----+-----
Marcia     | Wilson   | Executive
Henry      | Wilson   | Finance
William    | Cromwell | Sales
William    | Cromwell | Administration
Annita     | Boleyn   | Sales
John       | Ranger   | Sales
John       | Ranger   | Human Resources
John       | Ranger   | Research and Development
Sally      | Gates    | Research and Development
(9 rows)

[local]:5432 test2@test2=>
```

7.7 Query 4 -- find employees that have more than one email address



```
[local]:5432 test2@test2=> \i test2queries.sql
employee_number | first_name | last_name
-----+-----+-----
BOLEYN          | Annita    | Boleyn
GATESS          | Sally     | Gates
(2 rows)

[local]:5432 test2@test2=>
```

The image shows a terminal window with a dark background. At the top, there are three colored window control buttons (red, yellow, green). The terminal displays the command `\i test2queries.sql` which has been executed. The output is a table with three columns: `employee_number`, `first_name`, and `last_name`. The table contains two rows of data: one for Annita Boleyn and one for Sally Gates. Below the table, it indicates that there are 2 rows. The prompt `[local]:5432 test2@test2=>` is shown again at the bottom of the terminal.