DBMS and Programming Languages

PostgreSQL was the DBMS used.

Setup Instructions

Step 1: Setting Up the Database

1. Open pgAdmin 4
2. Inside of your desired database, create a new schema called ‘projectGroup100’.
   To do this:
   a. Right-click on ‘Schemas’
   b. Hover over ‘Create’ and select ‘Schema…’ from the dropdown. A window should pop up.
   c. In the ‘Name’ field, type ‘projectGroup100’.
   d. Click ‘Save’.

Step 2: Creating the tables

1. Under ‘Schemas’, right-click on ‘projectGroup100’.
2. Select ‘Query Tool’
3. Copy the code from ‘creating_relations.sql’ and paste it into the query tool
4. Execute the query

Step 3: Populating the tables

1. Clear the query
2. Copy the code from ‘populate_db.sql’ and paste it into the query tool
3. Execute the query

Step 4: Creating the indexes

1. Clear the query
2. Copy the code from ‘indexes.sql’ and paste it into the query tool
3. Execute the query

Step 5: Creating the views

1. Right-click on ‘projectGroup100’
2. Hover over ‘Create’
3. Select ‘View…’ in the dropdown. A window should pop up.
4. In the ‘Name’ field enter ‘View1’
5. Go to the ‘Code’ tab
6. Copy the code from ‘view1.sql’ and paste it into the code tab
7. Click ‘Save’
8. Repeat for View2 and View3 using view2.sql and view3.sql, respectively.

Step 6: Running the queries

- Clear the query
- Copy the code from ‘query1.sql’ and paste it into the query tool

- Execute the query
- Repeat for queries 2-5 with the respective .sql files.

Step 7: Modifying the database

1. Clear the query
2. Copy the code from ‘trigger1.sql’ and paste it into the query tool
3. Execute the query
4. Repeat for trigger 2 with the respective .sql file.

DDLs Used for Database Creation

- Create
    - For every table to be created, we needed to use the ‘create’ function
- Alter
    - After creating a table, if any adjustments were needed, alter was used to change any minor details instead of creating a new table
- Drop
    - After creating a table, drop was used when we needed to delete a certain table or a specific row from a table