Stage 2 431W Project

Schema and DDL Commands

| Tobi Ajayi=# \dt | | | |
|-------------------|--------------------------|-------|------------|
| List of relations | | | |
| Schema | Name | Type | Owner |
| | | | |
| public | air_dates | table | Tobi Ajayi |
| public | created_by_types | table | Tobi Ajayi |
| public | created_bys | table | Tobi Ajayi |
| public | genre_types | table | Tobi Ajayi |
| public | genres | table | Tobi Ajayi |
| public | language_types | table | Tobi Ajayi |
| public | languages | table | Tobi Ajayi |
| public | link_types | table | Tobi Ajayi |
| public | links | table | Tobi Ajayi |
| public | network_types | table | Tobi Ajayi |
| public | networks | table | Tobi Ajayi |
| public | origin_country_types | table | Tobi Ajayi |
| public | production_companies | table | Tobi Ajayi |
| public | production_company_types | table | Tobi Ajayi |
| public | production_countries | table | Tobi Ajayi |
| public | production_country_types | table | Tobi Ajayi |
| public | show_votes | table | Tobi Ajayi |
| public | shows | table | Tobi Ajayi |
| public | spoken_language_types | table | Tobi Ajayi |
| public | spoken_languages | table | Tobi Ajayi |
| public | status | table | Tobi Ajayi |
| public | types | table | Tobi Ajayi |
| (22 rows) | | | |

```
Tobi Ajayi=# CREATE TABLE production_compan
 Tobi Ajayi(# productionCompanyTypeId SERIAL PRIMARY KEY,
Tobi Ajayi(# producerName TEXT NOT NULL
 Tobi Ajayi(# );
 CREATE TABLE
Tobi Ajayi=# CREATE TABLE production_country_types (
Tobi Ajayi(# productionCountryTypeId SERIAL PRIMARY KEY,
Tobi Ajayi(# countryOfProduction TEXT NOT NULL
Tobi Ajayi(# );
CREATE TABLE
Tobi Ajayi=# CREATE TABLE origin_country_types (
Tobi Ajayi(# originCountryTypeId SERIAL PRIMARY KEY,
Tobi Ajayi(# originalCountryName TEXT NOT NULL
  Tobi Ajayi(# );
TODI AJAYICA J.
CREATE TABLE
Tobi Ajayi=# CREATE TABLE spoken_language_types (
Tobi Ajayi(# spokenLanguageTypeId SERIAL PRIMARY KEY,
Tobi Ajayi(# languageSpoken TEXT NOT NULL
  Tobi Ajayi(# );
Tobi Ajayi # 7;
CREATE TABLE
Tobi Ajayi # CREATE TABLE created_by_types (
Tobi Ajayi # createdById SERIAL PRIMARY KEY,
Tobi Ajayi # creatorName TEXT NOT NULL
  Tobi Ajayi(# );
CREATE TABLE
Tobi Ajayi=# CREATE TABLE shows (
Tobi Ajayi(# showId SERIAL PRIMARY KEY,
Tobi Ajayi(# name TEXT NOT NULL,
                                  name TEXT NOT NULL,
numberOfSeasons INTEGER NOT NULL,
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
                                   numberOfEpisodes INTEGER NOT NULL,
                                   overview TEXT,
adult BOOLEAN NOT NULL,
                                   inProduction BOOLEAN NOT NULL,
originalName TEXT NOT NULL,
popularity REAL NOT NULL,
tagline TEXT,
episodeRunTime INTEGER NOT NULL,
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
                                    statusId INTEGER NOT NULL,
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#
Tobi Ajayi(#);
                                   typeId INTEGER NOT NULL,
FOREIGN KEY (statusId) REFERENCES status(statusId),
FOREIGN KEY (typeId) REFERENCES types(typeId)
 CREATE TABLE
```

```
Tobi Ajayi# CREATE TABLE genres (
Tobi Ajayi# spenreypeld INTEGER NOT NULL,
Tobi Ajayi# genreypeld INTEGER NOT NULL,
Tobi Ajayi# FOREIGH KEY (showId) genreTypeId),
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId),
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES genre_types(genreTypeId)
Tobi Ajayi# FOREIGH KEY (genreTypeId) REFERENCES genre_types(genreTypeId)
Tobi Ajayi# CREATE TABLE languages (
Tobi Ajayi# Integer NoT NULL,
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId),
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId),
Tobi Ajayi# FOREIGH KEY (languageTypeId) REFERENCES language_types(languageTypeId)
Tobi Ajayi# LanktapeId INTEGER NOT NULL,
Tobi Ajayi# FOREIGH KEY (linkTypeId showId),
Tobi Ajayi# FOREIGH KEY (linkTypeId REFERENCES shows(showId))
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId)
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId)
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId),
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES network_types(networkTypeId)
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES network_types(networkTypeId)
Tobi Ajayi# FOREIGH KEY (showId) REFERENCES shows(showId),
Tobi Ajayi# FOREIGH KEY (sho
```

```
Tobi Ajayi=# SELECT * FROM genres LIMIT 4;
showid | genretypeid
  1399
1399
1399
71446
Tobi Ajayi=# SELECT * FROM languages LIMIT 4;
showid | languagetypeid
   1399
71446
                                       121
66
66
    1402
(4 rows)
Tobi Ajayi=# SELECT * FROM links LIMIT 4;
linktypeid | showid |
                                                                                   linkname
                          1399 | http://www.hbo.com/game-of-thrones
71446 | https://www.netflix.com/title/80192098
66732 | https://www.netflix.com/title/80057281
1402 | http://www.amc.com/shows/the-walking-dead--1002293
(4 rows)
Tobi Ajayi=# SELECT * FROM networks LIMIT 4;
showid | networktypeid
  71446
71446
                                   2847
2111
   66732
(4 rows)
```

```
Tobi Ajayi=# SELECT * FROM production_companies LIMIT 4; showid | productioncompanytypeid
    1399
                                         3212
    1399
                                         1345
    1399
                                         5460
    1399
                                         6720
(4 rows)
Tobi Ajayi=# SELECT * FROM production_countries LIMIT 4;
showid | productioncountrytypeid | origincountrytypeid
    1399
                                          165
                                           30
10
   1399
  71446
                                                                         150
  66732
                                            30
                                                                           16
(4 rows)
Tobi Ajayi=# SELECT * FROM spoken_languages LIMIT 4;
showid | spokenlanguagetypeid
                                       73
6
6
  71446
  66732
   1402
(4 rows)
Tobi Ajayi=# SELECT * FROM show_votes LIMIT 4; votecount | voteaverage | showid
       21857
                                        1399
                          8.442
                                       71446
       17836
                          8.257
                                       66732
       16161
                          8.624
                                        1402
      15432
                          8.121
(4 rows)
```

```
Tobi Ajayi=# SELECT * FROM created_bys LIMIT 4;
 showid | createdbyid
                24015
   1399
   1399
                  627
  71446
                  481
  66732
                13781
(4 rows)
Tobi Ajayi=# SELECT * FROM air_dates LIMIT 4;
 isfirst | showid |
                       date
                    17/04/2011
             1399
 t
                    02/05/2017
            71446
 t
                    15/07/2016
            66732
 t
             1402 | 31/10/2010
 t
(4 rows)
Tobi Ajayi=#
```

```
Tobi Ajayi=# SELECT * FROM status LIMIT 10;
statusid | statuslabel
           Ended
            Returning Series
            Canceled
        4
            In Production
            Planned
            Pilot
           | Some Status
(7 rows)
Tobi Ajayi=# SELECT * FROM types LIMIT 10;
typeid | categoryname
          Scripted
          .
Documentary
          Miniseries
          Reality
Talk Show
      4
5
          Video
          News
(7 rows)
Tobi Ajayi=# SELECT * FROM genre_types LIMIT 10;
                 genrelabeĺ
genretypeid |
                Romance
                Kids
                Comedy
                Crime
           5
                Musical
                War & Politics
Sci-Fi & Fantasy
                Soap
                Western
          10
              History
(10 rows)
```

```
Tobi Ajayi=# SELECT * FROM language_types LIMIT 10;
languagetypeid | languagelabel
                  ko
                  tn
                 tt
              4
5
                 sk
                 ru
                 af
                 os
              9
                 my
             10
                 de
(10 rows)
Tobi Ajayi=# SELECT * FROM link_types LIMIT 10;
linktypeid | linkcategoryname
              homepage
              backdrop_path
             poster_path
(3 rows)
Tobi Ajayi=# SELECT * FROM network_types LIMIT 4;
networktypeid | networkname
                 SCTV
             2 j
                Facebook
             3 | NT1
             4 | SHO.com
(4 rows)
```

```
Tobi Ajayise SELECT * FROM created_by_types LIMIT 4;
createdphyd | creat
```

Normalization to BCNF

The initial dataset was represented in a single table with the following attributes:

id, name, number_of_seasons, number_of_episodes, original_language, vote_count, vote_average, overview, adult, backdrop_path, first_air_date, last_air_date, homepage, in_production, original_name, popularity, poster_path, type, status, tagline, genres, created_by, languages, networks, origin_country, spoken_languages, production_companies, production_countries, episode_run_time.

This dataset comprised a vast array of information about TV shows, encompassing fields such as identifiers, descriptive data, and categorical attributes. This original table, while comprehensive, suffered from significant redundancy, repetition, and potential update anomalies. To enhance data integrity and optimize query performance, a normalization process was necessary to restructure this dataset into a more manageable and robust schema.

Normalization began by establishing the First Normal Form (1NF), which involved segregating data into atomic elements and eliminating repeating groups. Attributes such as genres, languages, and production countries, which previously contained multiple values within single records, were split into independent tables. This step was crucial to removing duplications and ensuring that each field contained the smallest possible data unit.

Subsequently, the dataset was transitioned into the Second Normal Form (2NF). During this phase, tables were restructured to remove partial dependencies; attributes that did not depend solely on the primary key but instead on portions of composite keys were identified and isolated. This involved detaching various show-related attributes into standalone tables, each linked to the primary show table via foreign keys, thereby reducing redundancy and enhancing data accessibility.

Progressing to the Third Normal Form (3NF), the schema was refined to eliminate transitive dependencies. Attributes that depended on other non-primary attributes were moved into separate

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tables. This step ensured that non-key attributes in each table depended only on the primary key, further enhancing the logical separation and independence of data segments.

The final step towards achieving Boyce-Codd Normal Form (BCNF) involved scrutinizing each table for remaining anomalies and ensuring that every determinant was a candidate key. This stringent form of normalization was necessary to handle remaining irregularities not addressed by 3NF, primarily focusing on ensuring that every non-trivial functional dependency in the table was on a superkey. The resulting database schema includes multiple interlinked tables such as shows, genre_types, language_types, network_types, and various associative tables that manage relationships like show-genres and show-languages.

New DB Schema:

- status: [statusid, statuslabel]
- types: [typeid, categoryname]
- genre_types: [genretypeid, genrelabel]
- language_types: [languagetypeid, languagelabel]
- link_types: [linktypeid, linkcategoryname]
- network_types: [networktypeid, networkname]
- production_company_types: [productioncompanytypeid, producername]
- production_country_types: [productioncountrytypeid, countryofproduction]
- origin_country_types: [origincountrytypeid, originalcountryname]
- spoken_language_types: [spokenlanguagetypeid, languagespoken]
- created_by_types: [createdbyid, creatorname]
- shows: [showid, name, numberofseasons, numberofepisodes, overview, adult, inproduction, originalname, popularity, tagline, episoderuntime, statusid, typeid]
- genres: [showid, genretypeid]
- languages: [showid, languagetypeid]
- links: [linktypeid, showid, linkname]
- networks: [showid, networktypeid]
- production_companies: [showid, productioncompanytypeid]
- production_countries: [showid, productioncountrytypeid, origincountrytypeid]
- spoken_languages: [showid, spokenlanguagetypeid]
- show_votes: [votecount, voteaverage, showid]
- created_bys: [showid, createdbyid]
- air_dates: [isfirst, showid, date]

Some Resources I found very helpful:

- https://www.analyticsvidhya.com/blog/2023/02/how-to-normalize-relational-databases-with-sql-code/
- https://www.ict.griffith.edu.au/normalization_tools/normalization/ind.php

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CLI Functionality and Interface

CLI Menu:

```
PS C:\Users\Tobi Ajayi> cd .\Downloads\
PS C:\Users\Tobi Ajayi\Downloads> python .\cmpenfp_post.py
                Welcome to the Database CLI Interface!
                Please select an option:
                1. Insert Data
                2. Delete Data
                3. Update Data
                4. Search Data
                5. Aggregate Functions
                6. Sorting
                7. Joins
                8. Grouping
                9. Subqueries
                10. Transactions
                11. Error Handling
                12. Exit
Enter your choice (1-12):
```

Testing Every Function:

1. Insert Data: ('INSERT INTO {table} ({fields}) VALUES ({values})')

```
Welcome to the Database CLI Interface!

Please select an option:
1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
5. Aggregate Functions
6. Sorting
7. Joins
8. Grouping
9. Subqueries
10. Transactions
11. Error Handling
12. Exit

Enter your choice (1-12): 1
Which table would you like to insert into?
1. status
2. types
3. genre_types
4. language_types
5. link_types
6. network_types
7. production_country_types
9. origin_country_types
10. spoken_language_types
11. created_by_types
12. shows
13. genres
14. languages
15. links
16. networks
17. production_companies
18. production_companies
19. spoken_languages
20. show_votes
21. created_bys
22. air_dates
Enter the number of the table: 1
Inserting into status.
Enter statusid: 8
Enter statusid: Enter status
Data inserted into status successfully.
```

2. Delete Data: ('DELETE FROM {table_name} WHERE {condition} = %s')

```
Welcome to the Database CLI Interface!

Please select an option:
1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
5. Aggregate Functions
6. Sorting
7. Joins
8. Grouping
9. Subqueries
10. Transactions
11. Error Handling
12. Exit

Enter your choice (1-12): 2
Which table would you like to delete from?
1. status
2. types
3. genre_types
4. language_types
5. Link_types
6. network_types
9. origin_country_types
9. origin_country_types
10. spoken_language_types
11. created_by_types
12. shows
13. genres
14. languages
15. Links
16. networks
17. production_companies
18. production_companies
18. production_countries
19. spoken_languages
20. show_votes
21. created_bys
22. air_dates
Enter the number of the table: 1
Delete from status.
Enter the condition (e.g., 'column_name = value'): statusid
Enter the value for the condition: 8
Record(s) deleted successfully from status.
```

```
Welcome to the Database CLI Interface!

Please select an option:
1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
4. Search Data
5. Aggregate Functions
6. Sorting
7. Joins
8. Grouping
9. Subqueries
10. Transactions
11. Error Handling
12. Exit

Enter your choice (1-12): 3
Which table would you like to update?
1. status
2. types
3. genre_types
4. language types
5. link_types
6. network_types
7. production_company_types
8. production_country_types
10. spoken_language_types
11. created_by_types
12. shows
13. genres
14. languages
15. links
16. networks
17. production_companies
18. production_countries
19. spoken_languages
20. show_votes
21. created_bys
22. air_dates
Enter the number of the table: 1
Enter the SET clause (e.g., 'column1 = new_value'): statuslabel Enter the new value for the set clause: Status Updated
Enter the new value for the update (e.g., 'id = 4'): statusid Enter the value for the condition: 7
Record(s) updated successfully.
```

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4. Search Data: ('SELECT * FROM {table_name} WHERE {column_name} LIKE %s')

```
Welcome to the Database CLI Interface!

Please select an option:
1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
5. Aggregate Functions
6. Sorting
7. Securing
9. Subqueries
19. Transactions
11. Error Handling
12. Exit

Enter your choice (1-12): 4
Which table would you like to search in?
1. status
2 types
4. Language types
5. Link types
6. network types
7. production.company.types
8. production.company.types
9. origin.country.types
9. origin.country.types
10. spoken.language.types
11. created.by.types
13. denous types
14. language.types
15. denous types
16. production.companies
17. production.companies
18. production.companies
19. production.companies
19. production.companies
11. created.by.types
12. shows
13. created.by.types
14. status
15. production.companies
16. network
17. production.companies
18. production.companies
19. spoken.languages
20. show.votes
21. created.bys
22. air_dates
Enter the number of the table: 1
Enter the search criteria for the status table.
Enter the column name to search (e.g., "statuslabel): statuslabel
Enter the column name to search (e.g., "statuslabel): Status Updated
(70, "Status Updated')
```

5. Aggregate Functions: ('SELECT {agg_function}({column}) FROM {table_name}')

```
Welcome to the Database CLI Interface!
                                         Please select an option:
1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
5. Magregate Eurotions
                                         4. Search Data
5. Aggregate Functions
6. Sorting
7. Joins
8. Grouping
9. Subqueries
10. Transactions
11. Error Handling
12. Exit
 Enter your choice (1-12): 5
Which table would you like to perform aggregation on?
  1. status
        types
       genre_types
language_types
4. Language_types
5. Link_types
6. network_types
7. production_company_types
8. production_country_types
 9. origin_country_types
10. spoken_language_types
11. created_by_types
          shows
          genres
languages
links
 13.
14.
           networks
          production_companies
production_countries
 19. spoken_languages
20. show_votes
21. created_bys
21. created_oys
22. air_dates
Enter the number of the table: 1
Enter the column to aggregate: statusid
Which aggregate function would you like to perform?
Which aggregate +unction would you
1. SUM
2. AVG
3. COUNT
4. MIN
5. MAX
Enter your choice (1-5): 3
COUNT of statusid in status is: 7
```

6. Sorting: ('SELECT * FROM {table_name} ORDER BY {column} {direction}')

```
Welcome to the Database CLI Interface!
                                 Please select an option:
                                 1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
                                 5. Aggregate Functions
6. Sorting
7. Joins
                                 9. Subqueries
10. Transactions
11. Error Handling
12. Exit
Enter your choice (1-12): 6
Which table would you like to sort data in?

    status

      types
      genre_types
language_types
link_types
      network_types
production_company_types
production_country_types
9. origin_country_types
10. spoken_language_types
11. created_by_types
       shows
13. genres
14. languages
        links
       networks
       production_companies
        production_countries
19. spoken_languages
       show_votes
21. created_bys
21. created_pys
22. air_dates
Enter the number of the table: 1
Enter the column to sort by: statuslabel
Choose sort direction:
1. Ascending (ASC)
2. Descending (DESC)
Enter your choice (1-2): 1
(3, 'Canceled')
(1 'Ended')
         'Ended')
'In Production')
'Pilot')
'Planned')
          'Returning Series')
'Status Updated')
```

```
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Figure of the services

Figure of the services

2. (or first facts)

3. (or first facts)

4. (or first facts)

5. (or first facts)

6. (or first facts)

7. (or first facts)

8. (or first facts)

9. (or first facts)

9. (or first facts)

9. (or first facts)

10. (or first facts)

11. (or first facts)

12. (or first facts)

13. (or first facts)

14. (or first facts)

15. (or first facts)

16. (or first facts)

17. (or first facts)

18. (or first facts)

19. (or fir
```

```
Welcome to the Database CLI Interface!

Please select an option:

1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
5. Aggregate Functions
6. Sorting
7. Joins
8. Grouping
9. Subqueries
10. Transactions
11. Error Handling
12. Exit

Enter your choice (1-12): 8
Available tables for GROUP BY operation:
1. status
2. types
3. genre_types
4. language_types
5. Link_types
6. network_types
7. production_company_types
8. production_company_types
9. origin_country_types
10. spoken_language_types
11. created_by_types
12. shows
13. genres
14. languages
15. links
16. networks
17. production_companies
18. production_companies
18. production_companies
19. spoken_languages
20. show_votes
21. created_bys
22. air_dates
Enter the number of the table: 12
Enter the column name to group by: statusid Choose the aggregate function to apply:
1. COUNT
2. SUM
3. AVG
4. MIN
5. MAX
Enter your choice (1-5): 1
(1, 124518)
(2, 13069)
(3, 10398)
(4, 9333)
(5, 2895)
(6, 1350)
(7, 580)
```

9. Subqueries: ('SELECT * FROM {main_table_name} WHERE {subquery_column} IN
 (SELECT {subquery_column} FROM {sub_table_name}) LIMIT 6')

```
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Plants shared an option

1 Depart Safet

2 Depart Safet

3 Depart Safet

4 Depart Safet

5 Depart Safet

5 Depart Safet

6 Depart Safet

6 Depart Safet

7 Depart Safet

6 Depart Safet

7 Depart Safet

8 Depart Sa
```

10. Transactions:

Welcome to the Database CLI Interface!

Please select an option:

- Insert Data
 Delete Data
- 3. Update Data
- 4. Search Data
- 5. Aggregate Functions
 6. Sorting
 7. Joins
 8. Grouping

- Subqueries
- 10. Transactions 11. Error Handling 12. Exit

Enter your choice (1-12): 10

Transaction Menu:

- 1. Begin Transaction
 2. Commit Transaction
 3. Rollback Transaction
 4. Return to Main Menu

Enter your choice: 1

Transaction started. You can now perform operations before committing.

Transaction Menu:

- 1. Begin Transaction
- 2. Commit Transaction
- 3. Rollback Transaction 4. Return to Main Menu

Enter your choice: 4 Returning to main menu...

Tobi Ajayi

```
Welcome to the Database CLI Interface!
                               Please select an option:
                               1. Insert Data
2. Delete Data
3. Update Data
4. Search Data
                               5. Aggregate Functions
6. Sorting
                               7. Joins
8. Grouping
                               9. Subqueries
10. Transactions
                               11. Error Handling
12. Exit
Enter your choice (1-12): 1
Which table would you like to insert into?
Which table would you like to 1. status 2. types 3. genre_types 4. language_types 5. link_types 6. network_types 7. production_country_types 8. production_country_types 9. orioin_country_types 9. orioin_country_types
9. origin_country_types
10. spoken_language_types
11. created_by_types
12. shows
13. genres
14. languages
15. links
16. networks
17. production_companies
18. production_countries
19. spoken_languages
20. show_votes
20. snow_votes
21. created_bys
22. air_dates
Enter the number of the table: 1
Inserting into status.
Enter statusid: 9
 Enter statuslabel: Transaction Test
 Data inserted into status successfully.
                               Welcome to the Database CLI Interface!
                               Please select an option:
                               1. Insert Data
2. Delete Data
3. Update Data
                               4. Search Data
                               5. Aggregate Functions
6. Sorting
7. Joins
8. Grouping
                               Subqueries
                                Transactions
                               11. Error Handling
12. Exit
Enter your choice (1-12): 10
                Transaction Menu:
               1. Begin Transaction
2. Commit Transaction
3. Rollback Transaction
4. Return to Main Menu
Enter your choice: 2
Transaction committed successfully.
                Transaction Menu:

    Begin Transaction
    Commit Transaction
    Rollback Transaction

                4. Return to Main Menu
Enter your choice: 4
Returning to main menu...
```

11. Exit:

Welcome to the Database CLI Interface!

Please select an option:

- Insert Data
 Delete Data
- 3. Update Data
- 4. Search Data
- 5. Aggregate Functions
 6. Sorting
 7. Joins
 8. Grouping
 9. Subqueries

- 10. Transactions
- 11. Error Handling
- Exit

Enter your choice (1-12): 12 Exiting the application... Database connection closed.

PS C:\Users\Tobi Ajayi\Downloads>