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PROJECT 2

Design an eCommerce
Website Database

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Problem Statement

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Designing a Database for Shopee/Tokopedia/AliExpress

- Imagine you work in a database management team of an eComm platform
- Please design a database for the platform
- Draw an ERD Diagram for your design
- Implement the Database in SQLite and create all the tables
- Your design should at least include Users, Products, Shops, ShopOwners, Orders tables

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How to approach the problem?

1. Think about all the entities involved
2. Think about the relationship between the entities
3. Draw the ER Diagram
4. Validate the ER Diagram with TA in tutorial session
5. Start building the DB in SQLite (using CREATE TABLE command)
6. save the .db file and submit in the Learning Management System

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Hints

1. You haven't learnt how to create primary key and foreign key columns. We have prepared some learning materials in this file. Make sure you read until the end.

2. If you are still unsure about how to create primary key and foreign key columns, you can always join the tutorial session and ask for help.

3. Before you start working on the database, make sure you know how to save the database. To save the database, you need to click the **"Write Changes"** button.
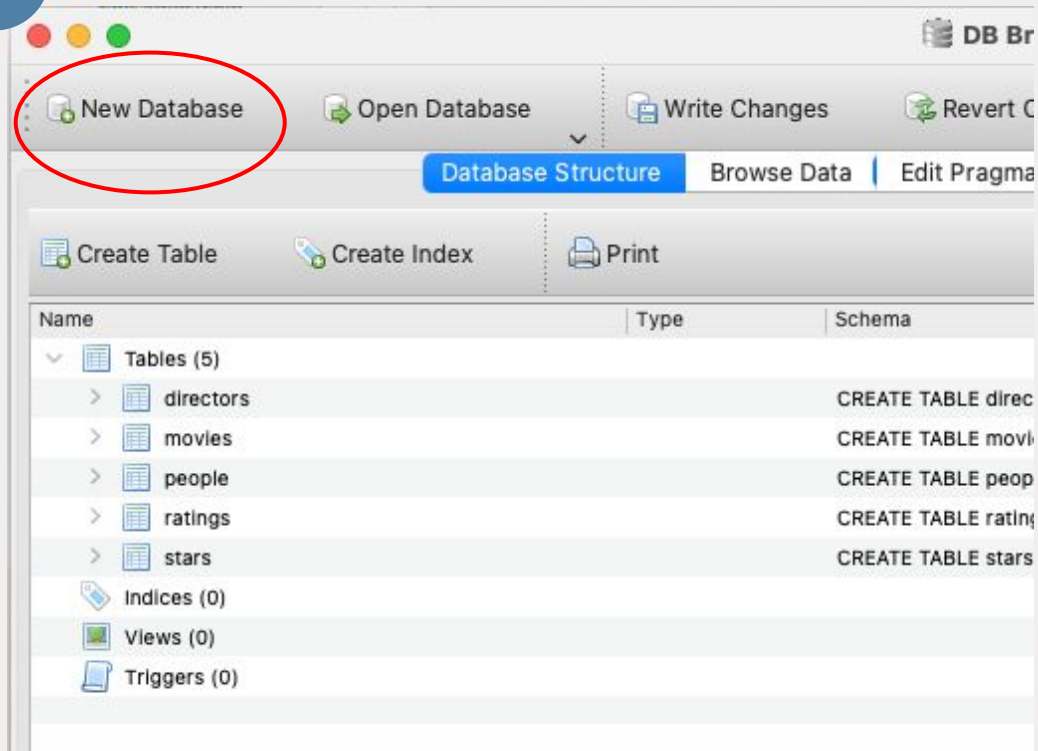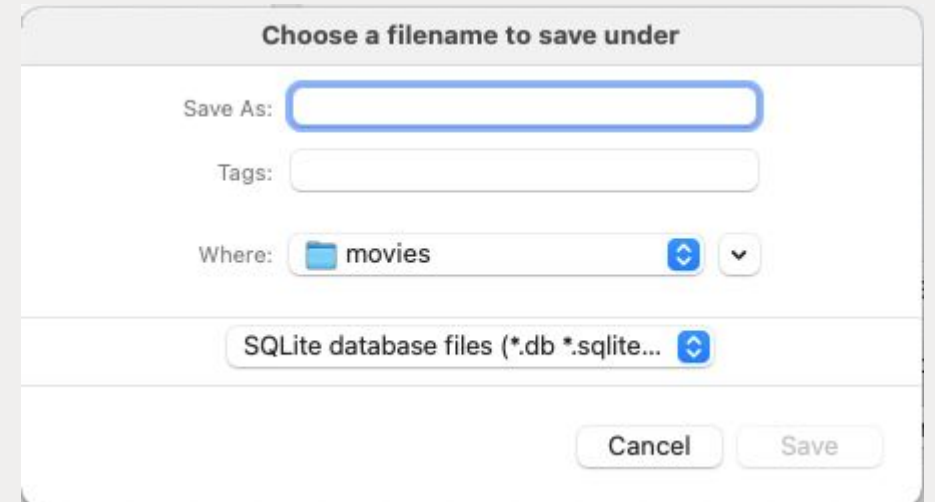
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Hands-on Skills for SQLite

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Creating a New Database in SQLite
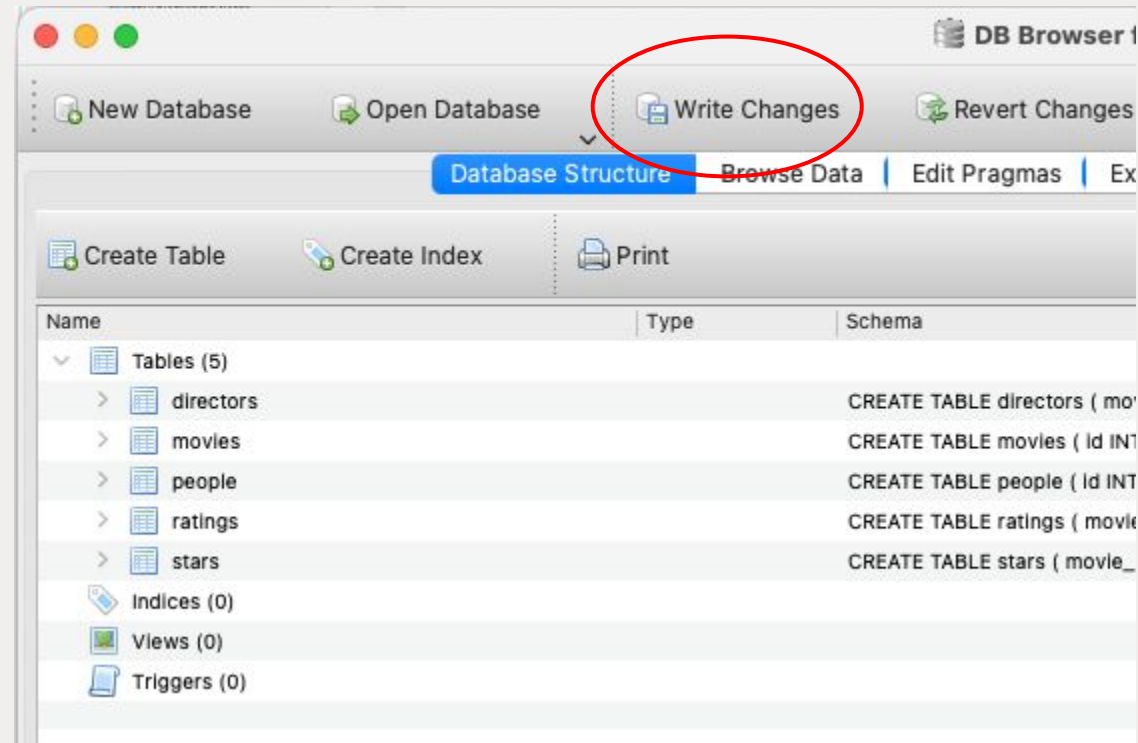

1

Click "New Database"

2

Select the location to save the .db file

Saving the Database in SQLite

Click "Write Changes"

Creating Primary Key Column in a Table

Sample Code for Creating Primary Key Column

```
CREATE TABLE movies
  (
    id     INTEGER,
    title  TEXT NOT NULL,
    year   NUMERIC,
    PRIMARY KEY(id)
  )
```
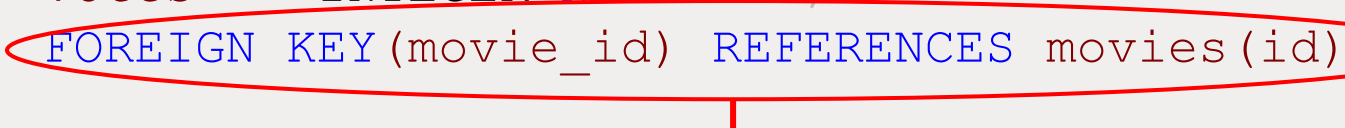
Add this line in your "CREATE TABLE" statement

Creating Foreign Key Column in a Table

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Sample Code for Creating Foreign Key Column

```sql
CREATE TABLE ratings
  (
    movie_id  INTEGER NOT NULL,
    rating    REAL NOT NULL,
    votes     INTEGER NOT NULL,
    FOREIGN KEY(movie_id) REFERENCES movies(id)
  )
```

Add this line in your "CREATE TABLE" statement

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