Access Code Struggle
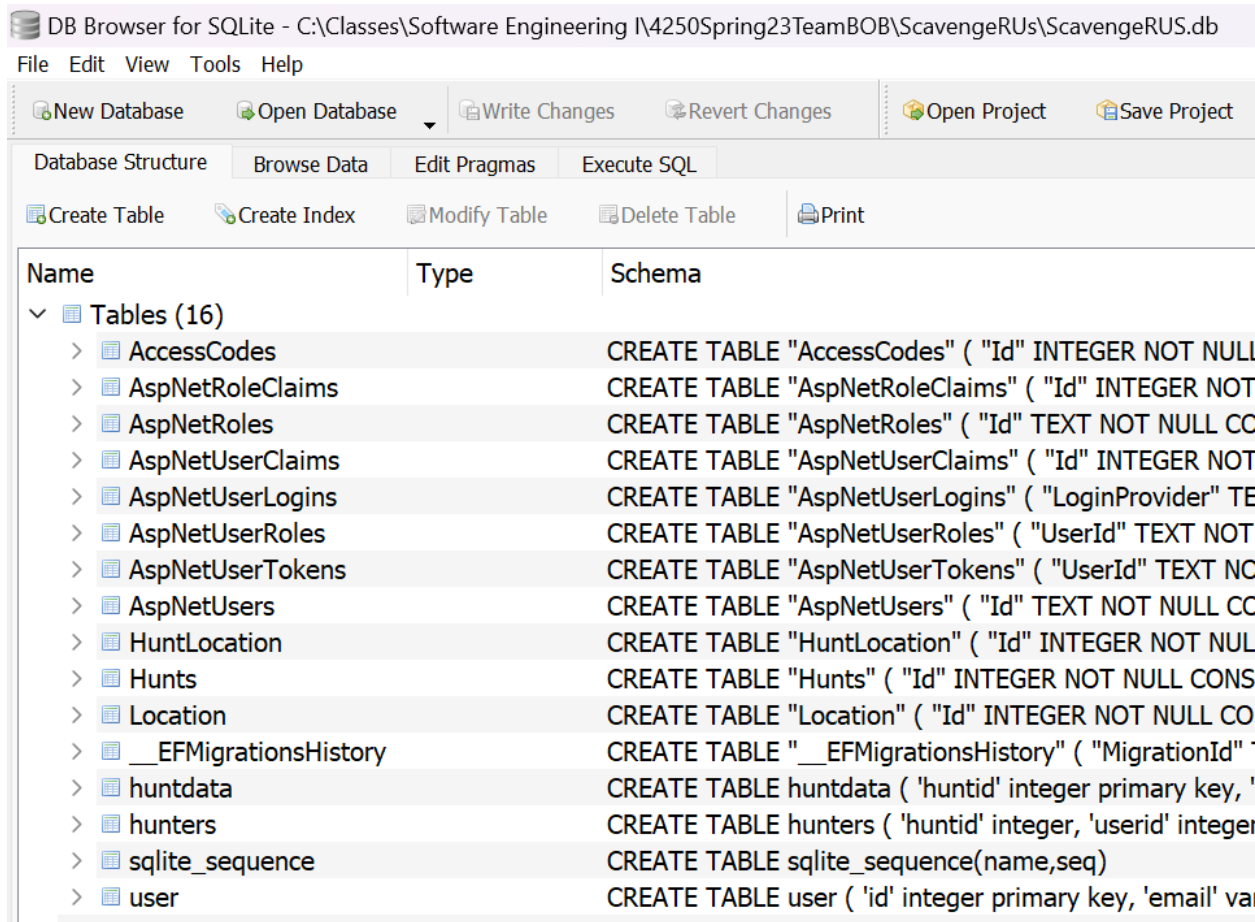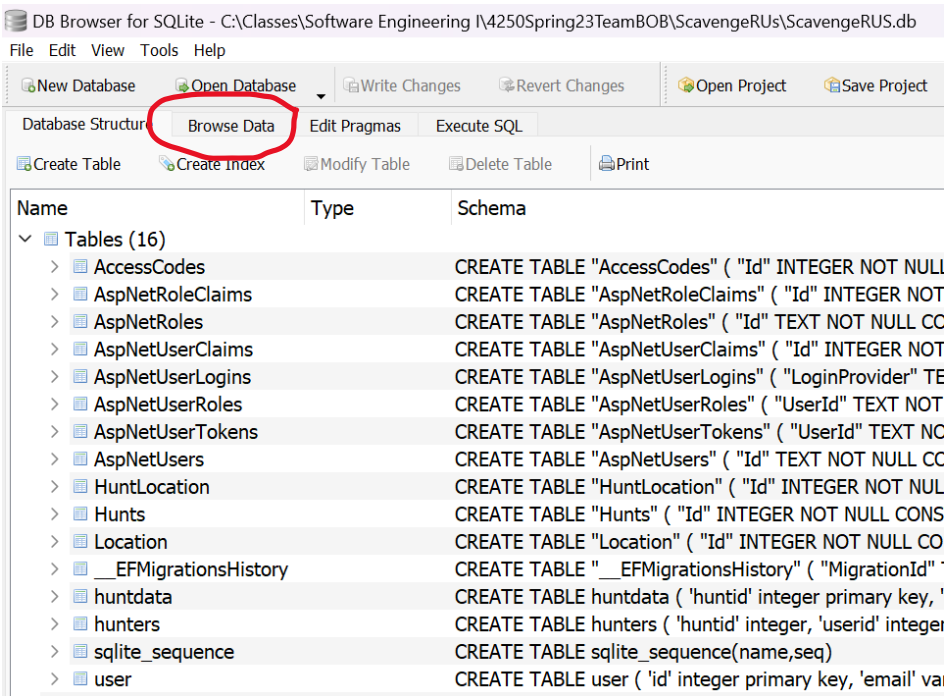
Opening the Database with SQLite
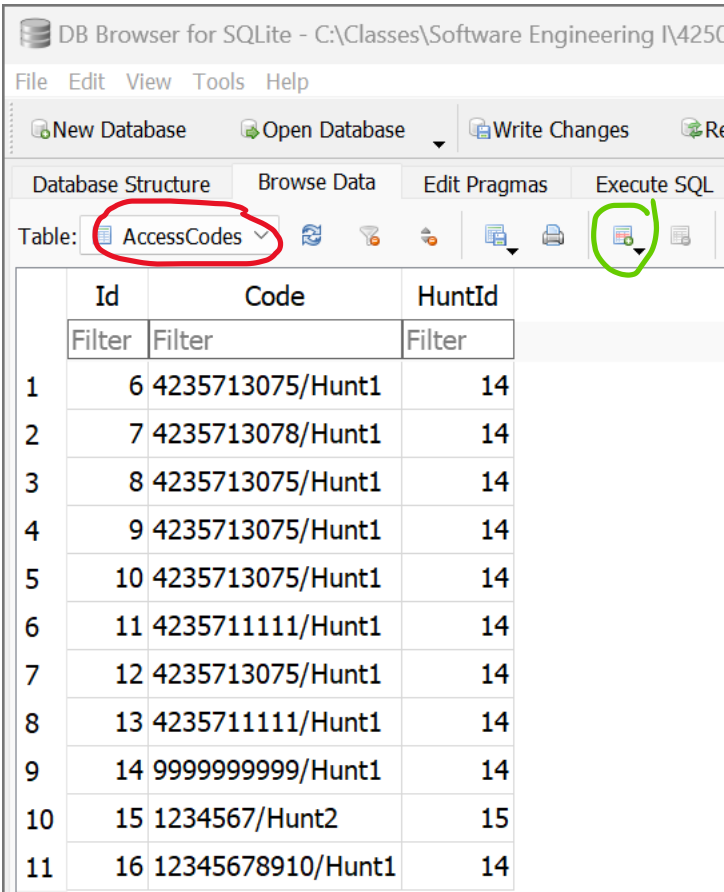
- You will need SQLite to open this database. You can download it at:
  https://sqlitebrowser.org/dl/
1. Open ScavengeRUS.db.

2. You should see a screen like this. If not, ensure the program opens with SQLite.
   a. SQLite's executable is located at C:\Program Files\DB Browser for SQLite. Open the program with the executable located in this folder.
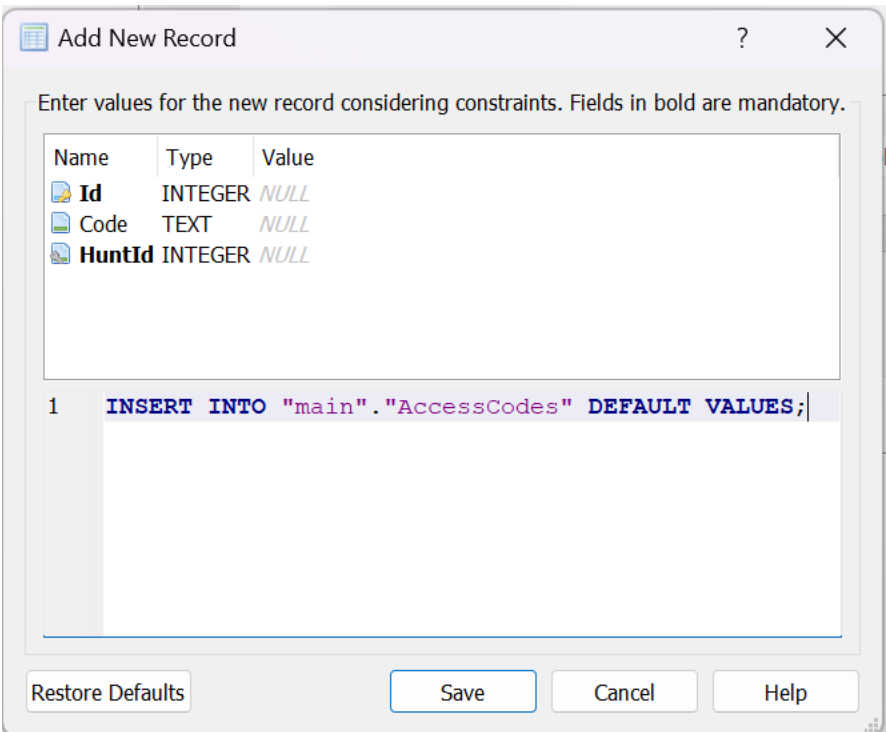

3. Click on "Browse Data" on the top menu.

4. You should see a screen like this:
   a. If not, you are probably on the wrong table.
   b. Change your table by clicking on the "Table: " drop-down list (Highlighted in red below), and change it to AccessCodes.

5. Add a new AccessCode by pressing the table with a plus icon (highlighted in Green above). You should see the resulting menu:

6. Move this menu so you can see the table data and the menu simultaneously.

DB Browser for SQLite - C:\Classes\Software Engineering I\4250Spring23TeamBOB\ScavengeRUs\ScavengeRUS.db

File Edit View Tools Help

New Database   Open Database   Write Changes   Revert Changes   Open Project   Save Project   Att

Database Structure   Browse Data   Edit Pragmas   Execute SQL   Edit Database Cell

Table: AccessCodes   »Filter in ...   Mode: Text

	Id	Code	HuntId
	Filter	Filter	Filter
1	6	4235713075/Hunt1	14
2	7	4235713078/Hunt1	14
3	8	4235713075/Hunt1	14
4	9	4235713075/Hunt1	14
5	10	4235713075/Hunt1	14
6	11	4235711111/Hunt1	14
7	12	4235713075/Hunt1	14
8	13	4235711111/Hunt1	14
9	14	9999999999/Hunt1	14
10	15	1234567/Hunt2	15
11	16	12345678910/Hunt1	14

Add New Record   ?   ✕

Enter values for the new record considering constraints. Fields in bold are mandatory.

Name	Type	Value
Id	INTEGER	NULL
Code	TEXT	NULL
HuntId	INTEGER	NULL

```
1   INSERT INTO "main"."AccessCodes" DEFAULT VALUES;
```

Restore Defaults   Save   Cancel   Help

7. The Id and Code fields are unique. However, HuntId is not unique. Ensure that whenever adding an AccessCode to the database, the Id and Code you input are different than all the IDs and Codes in the database.

8. After adding the AccessCode, you might think that you're done. However, when you try to open this accesscode in the program, it fails! We need to look at AccessCode's dependencies. What else does it need?

9. To get a feel of AccessCode's dependencies, open the AccessCode.cs class in Visual Studio. It's located at: Models\Entities\AccessCode.cs

```
18 references
public class AccessCode
{
    0 references
    public int Id { get; set; }
    [DisplayName("Access Code")]
    18 references
    public string? Code { get; set; }
    3 references
    public int HuntId { get; set; } //Foreign key
    [NotMapped]
    4 references
    public Hunt? Hunt{ get; set; } //Navigation property
    4 references
    public ICollection<ApplicationUser> Users { get; set; } = new List<ApplicationUser>();
}
```

a. Note that the AccessCode we made contains 3/5 fields already filled out. We just need to connect this AccessCode to a Hunt and Users.

10. Open the "Hunts" table in the database. You should see something like this:

11. Make a new hunt by pressing the ⬛ icon. The Id here corresponds to HuntId in AccessCode. If you made an AccessCode, ensure that the HuntId (in AccessCode) in corresponds to Id (in Hunts).

10		15	1234567/Hunt2		16	
16	2023-04-21 00:00:00	Hunt2		I hope this works (Michael		

12. Lastly, Users. (I don't know how to do this.)