

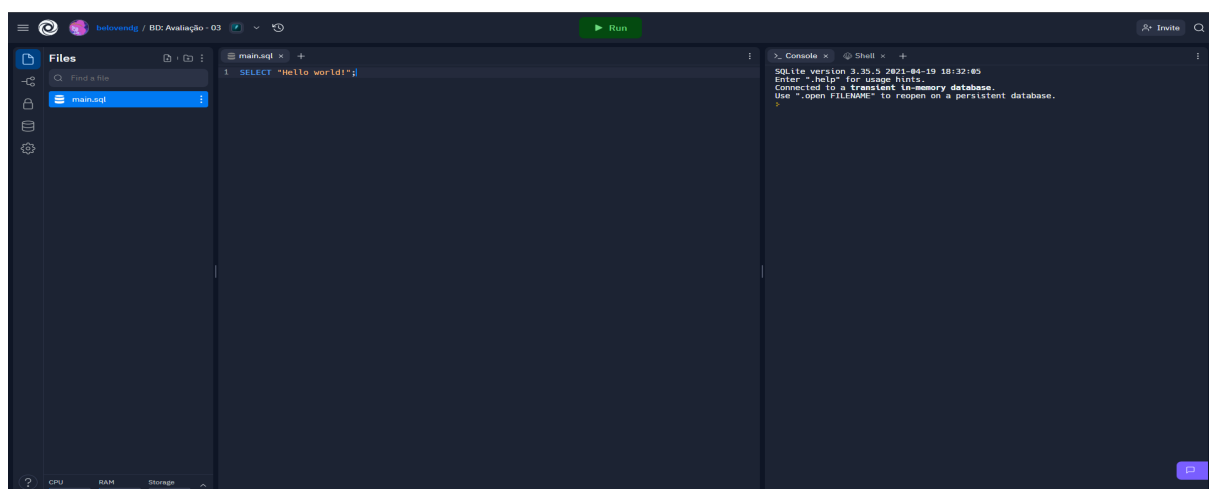
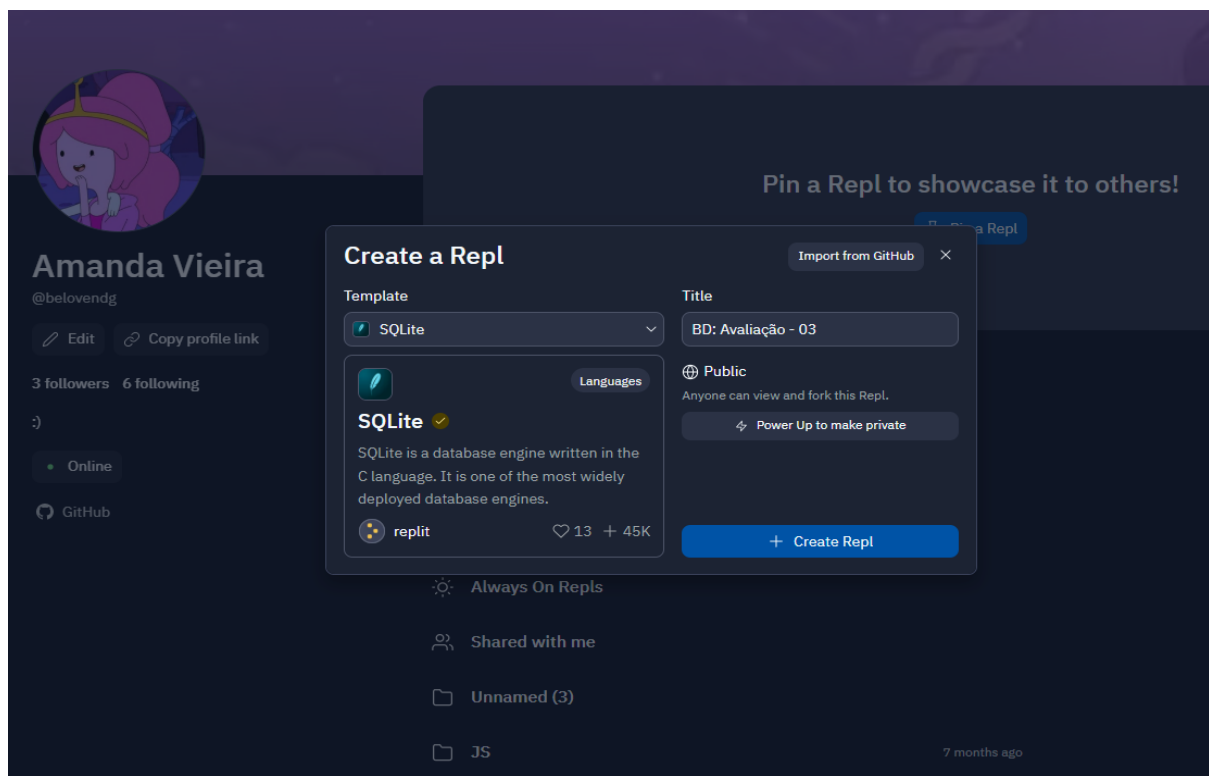
INFO - BD - AVALIAÇÃO 03: CRIAÇÃO DO BD - 28/09



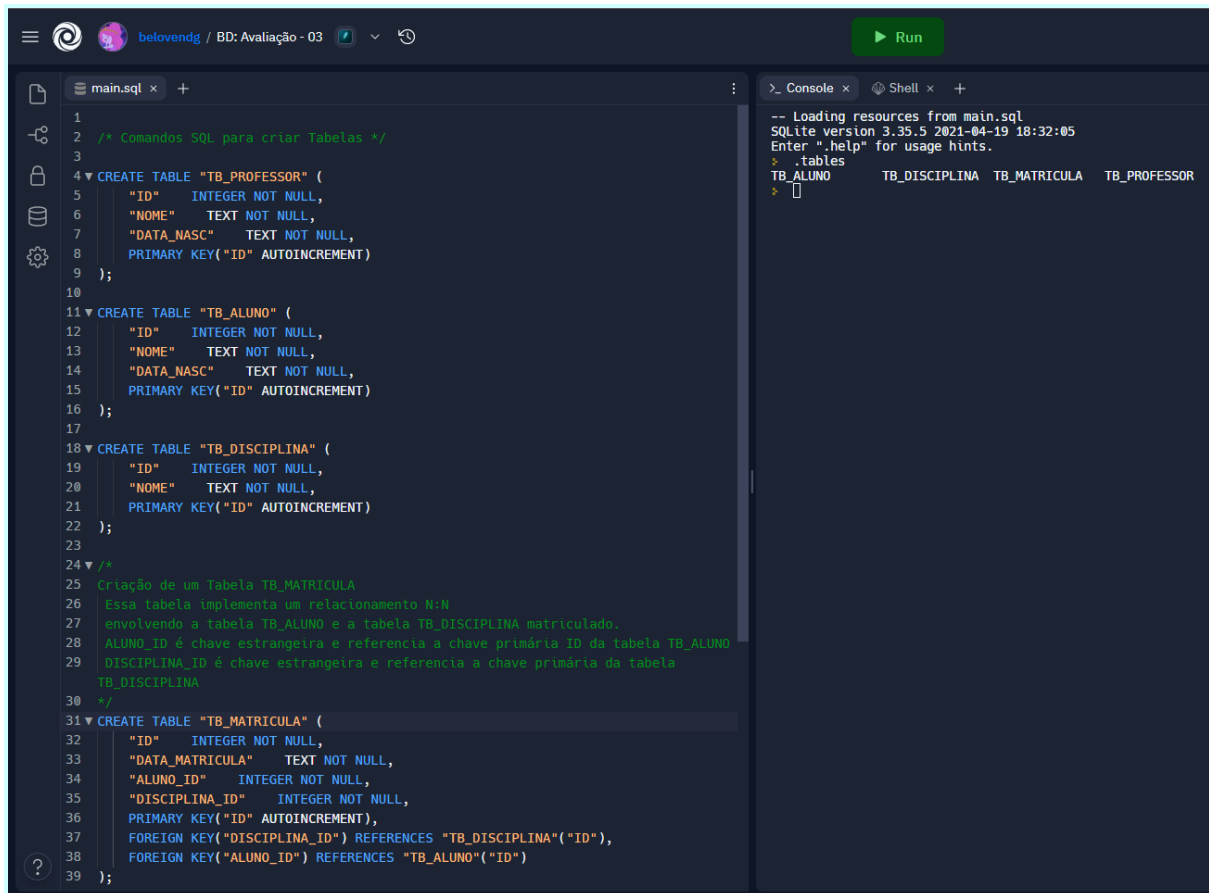
Professor: Ricardo Duarte Taveira

Alunos: Amanda Cavalcante Vieira e Caio Vieira Cajazeiras

1º passo: Criar um Replit com a linguagem SQLite.



2º passo: Criar as tabelas com os comandos CREATE TABLE no arquivo main.sql



```
1
2 /* Comandos SQL para criar Tabelas */
3
4 CREATE TABLE "TB_PROFESSOR" (
5     "ID" INTEGER NOT NULL,
6     "NOME" TEXT NOT NULL,
7     "DATA_NASC" TEXT NOT NULL,
8     PRIMARY KEY("ID" AUTOINCREMENT)
9 );
10
11 CREATE TABLE "TB_ALUNO" (
12     "ID" INTEGER NOT NULL,
13     "NOME" TEXT NOT NULL,
14     "DATA_NASC" TEXT NOT NULL,
15     PRIMARY KEY("ID" AUTOINCREMENT)
16 );
17
18 CREATE TABLE "TB_DISCIPLINA" (
19     "ID" INTEGER NOT NULL,
20     "NOME" TEXT NOT NULL,
21     PRIMARY KEY("ID" AUTOINCREMENT)
22 );
23
24 /*
25 Criação de um Tabela TB_MATRICULA
26 Essa tabela implementa um relacionamento N:M
27 envolvendo a tabela TB_ALUNO e a tabela TB_DISCIPLINA matriculado.
28 ALUNO_ID é chave estrangeira e referencia a chave primária ID da tabela TB_ALUNO
29 DISCIPLINA_ID é chave estrangeira e referencia a chave primária da tabela
30 TB_DISCIPLINA
31 */
32 CREATE TABLE "TB_MATRICULA" (
33     "ID" INTEGER NOT NULL,
34     "DATA_MATRICULA" TEXT NOT NULL,
35     "ALUNO_ID" INTEGER NOT NULL,
36     "DISCIPLINA_ID" INTEGER NOT NULL,
37     PRIMARY KEY("ID" AUTOINCREMENT),
38     FOREIGN KEY("DISCIPLINA_ID") REFERENCES "TB_DISCIPLINA"("ID"),
39     FOREIGN KEY("ALUNO_ID") REFERENCES "TB_ALUNO"("ID")
40 );
```

-- Loading resources from main.sql
SQLite version 3.35.5 2021-04-19 18:32:05
Enter ".help" for usage hints.
> .tables
TB_ALUNO TB_DISCIPLINA TB_MATRICULA TB_PROFESSOR

3º passo: Usar o comando `> .save SCA_DB.db` para salvar no diretório criado do no Replit

The screenshot displays the SQLite Studio application. The top bar shows the title "BD: Avaliação - 03" and the user "belovendg". The left sidebar contains icons for file management, a search bar, and a file list showing "main.sql" and "SCA_DB.db". The main editor window displays the "main.sql" file with the following SQL code:

```

4 CREATE TABLE "TB_PROFESSOR" (
5     "ID" INTEGER NOT NULL,
6     "NOME" TEXT NOT NULL,
7     "DATA_NASC" TEXT NOT NULL,
8     PRIMARY KEY("ID" AUTOINCREMENT)
9 );
10
11 CREATE TABLE "TB_ALUNO" (
12     "ID" INTEGER NOT NULL,
13     "NOME" TEXT NOT NULL,
14     "DATA_NASC" TEXT NOT NULL,
15     PRIMARY KEY("ID" AUTOINCREMENT)
16 );
17
18 CREATE TABLE "TB_DISCIPLINA" (
19     "ID" INTEGER NOT NULL,
20     "NOME" TEXT NOT NULL,
21     PRIMARY KEY("ID" AUTOINCREMENT)
22 );
23

```

The right sidebar contains the "Console" and "Shell" tabs. The "Console" tab shows the output of the SQL commands:

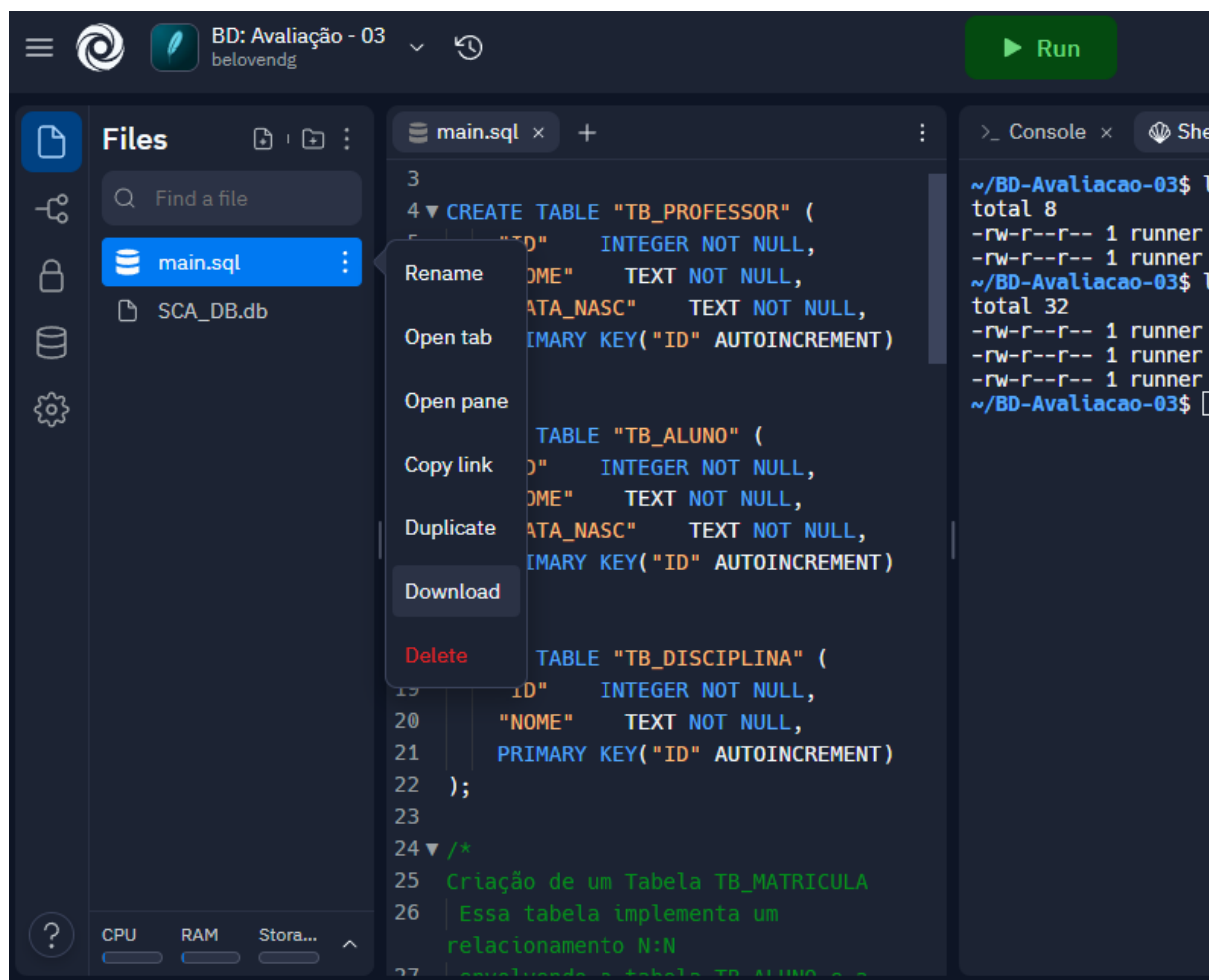
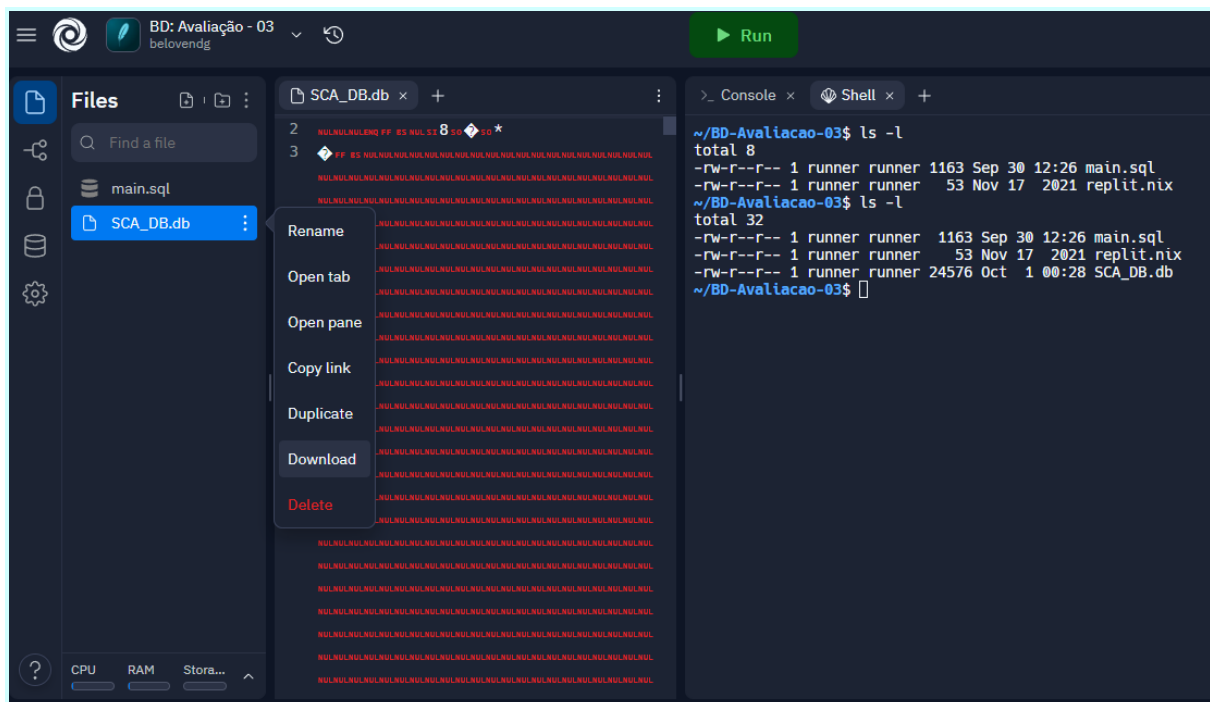
```

-- Loading resources from main.sql
SQLite version 3.35.5 2021-04-19 18:32:05
Enter ".help" for usage hints.
> .tables
TB_ALUNO          TB_DISCIPLINA    TB_MATRICULA     TB_PROFESSOR
> .save SCA_DB.db
>

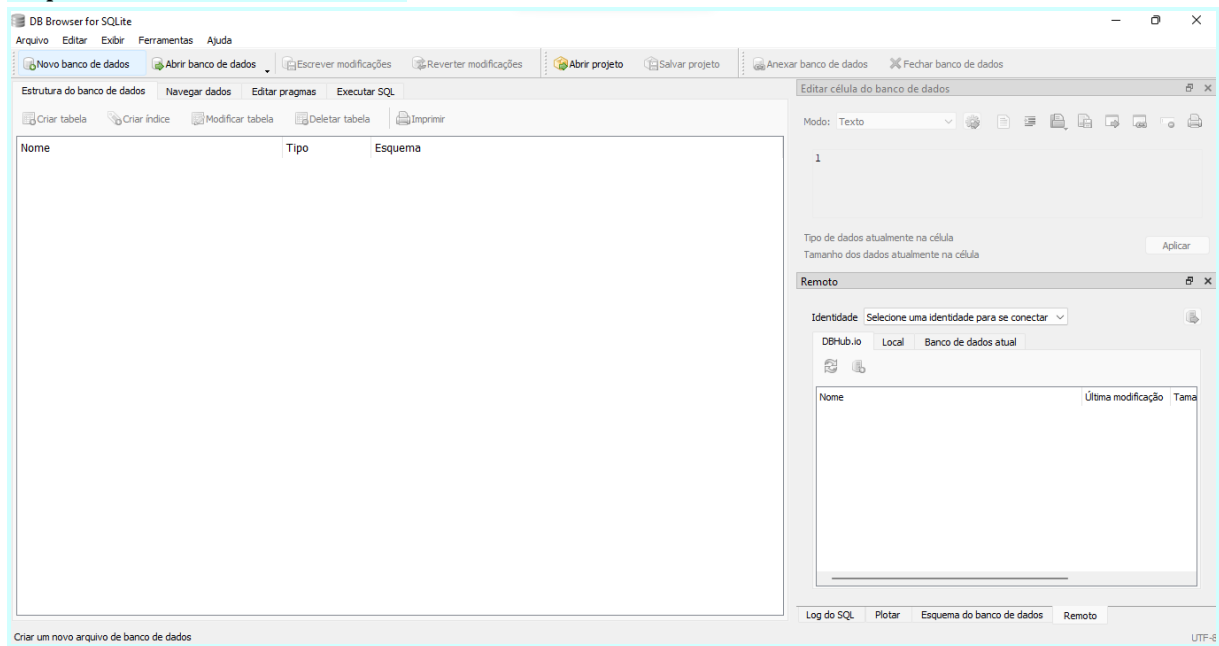
```

The image shows a Replit IDE interface. On the left is a sidebar with icons for files, search, lock, database, and settings. The 'Files' panel shows a file named 'SCA_DB.db' selected. The main editor area displays the content of 'SCA_DB.db', which appears to be a large file filled with many lines of redacted text (represented by 'NOL' and 'FF' characters). On the right is a terminal window with a shell prompt. The terminal output shows the execution of 'ls -l' commands in the directory '~/BD-Avaliacao-03'. The first command shows a total of 8 files, and the second command shows a total of 32 files. The file listing includes details like permissions, user, group, size, date, and filename. The files listed are 'runner', 'main.sql', and 'SCA_DB.db'. The terminal also shows the prompt '~/BD-Avaliacao-03\$'.

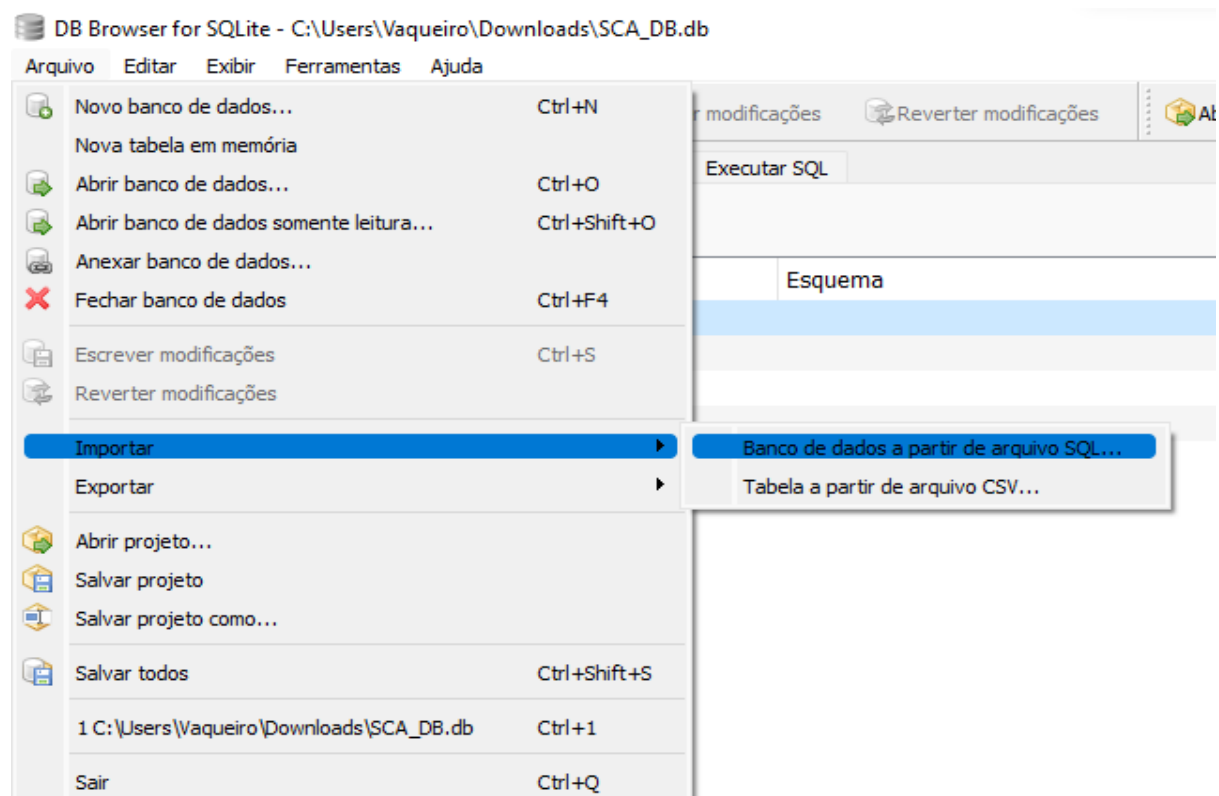
4º passo: Fazer o download do arquivo criado no seu computador

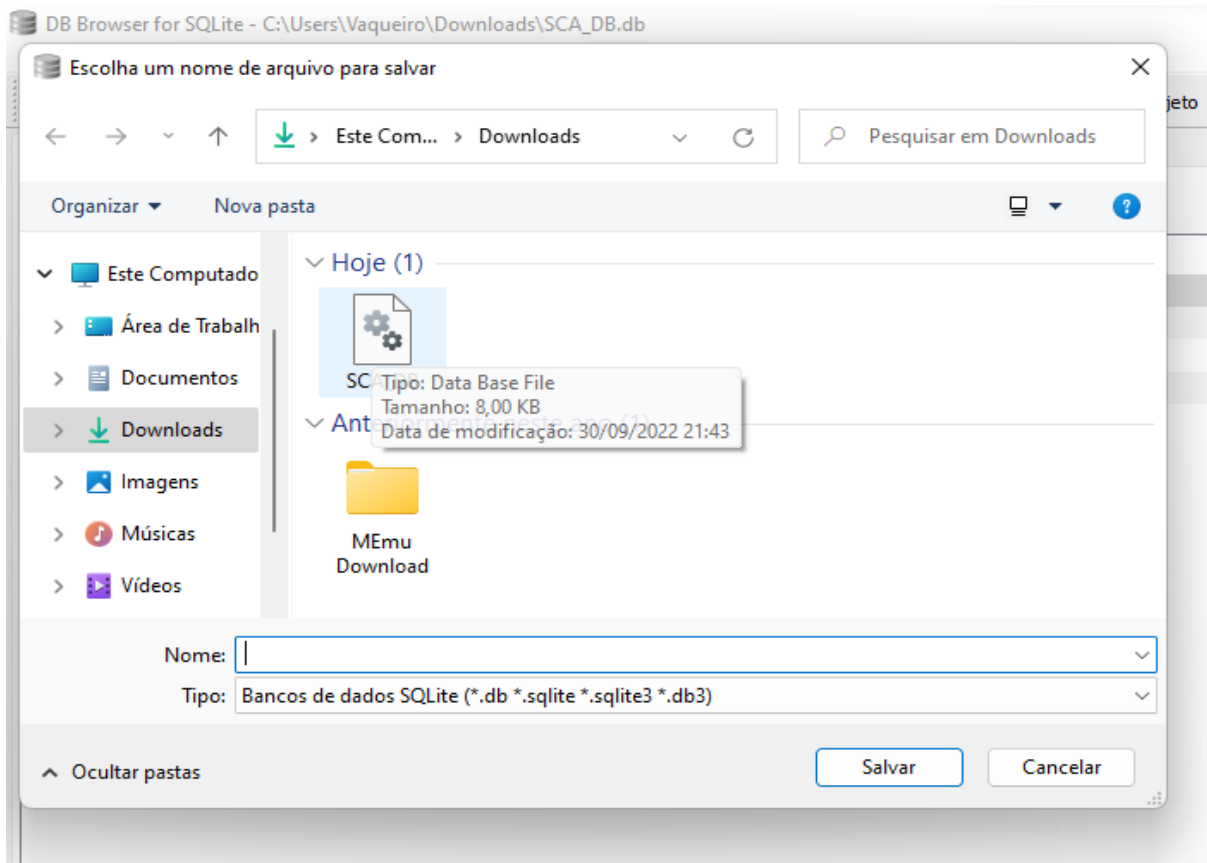
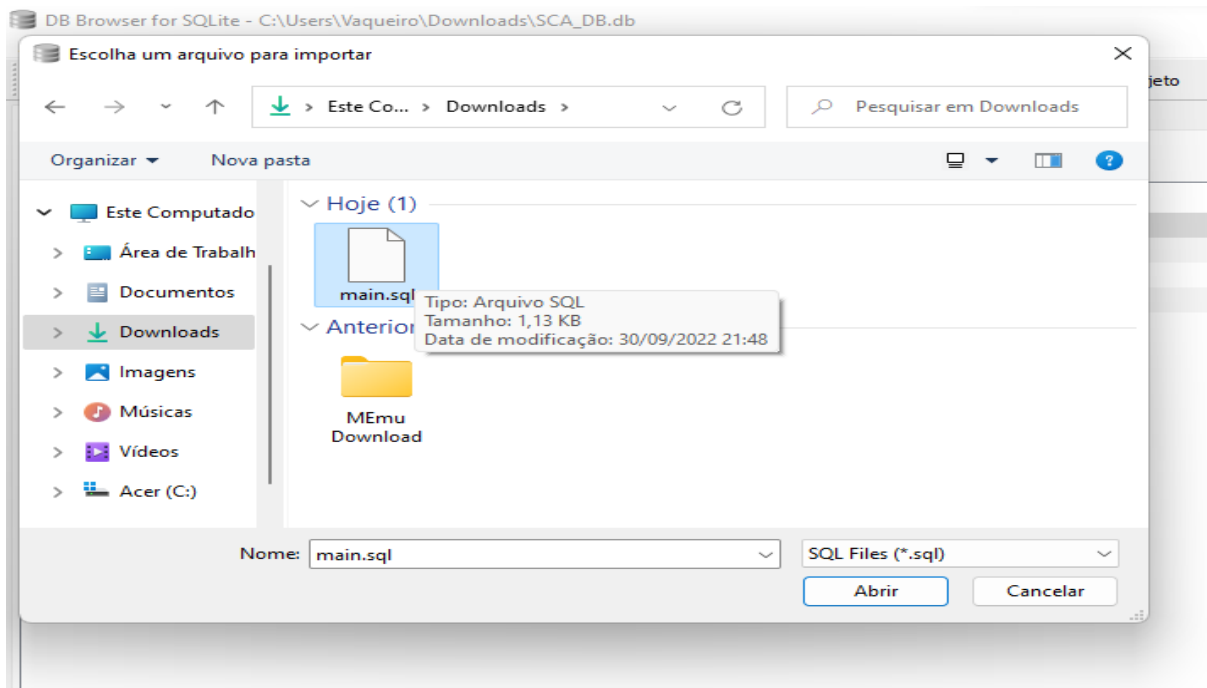


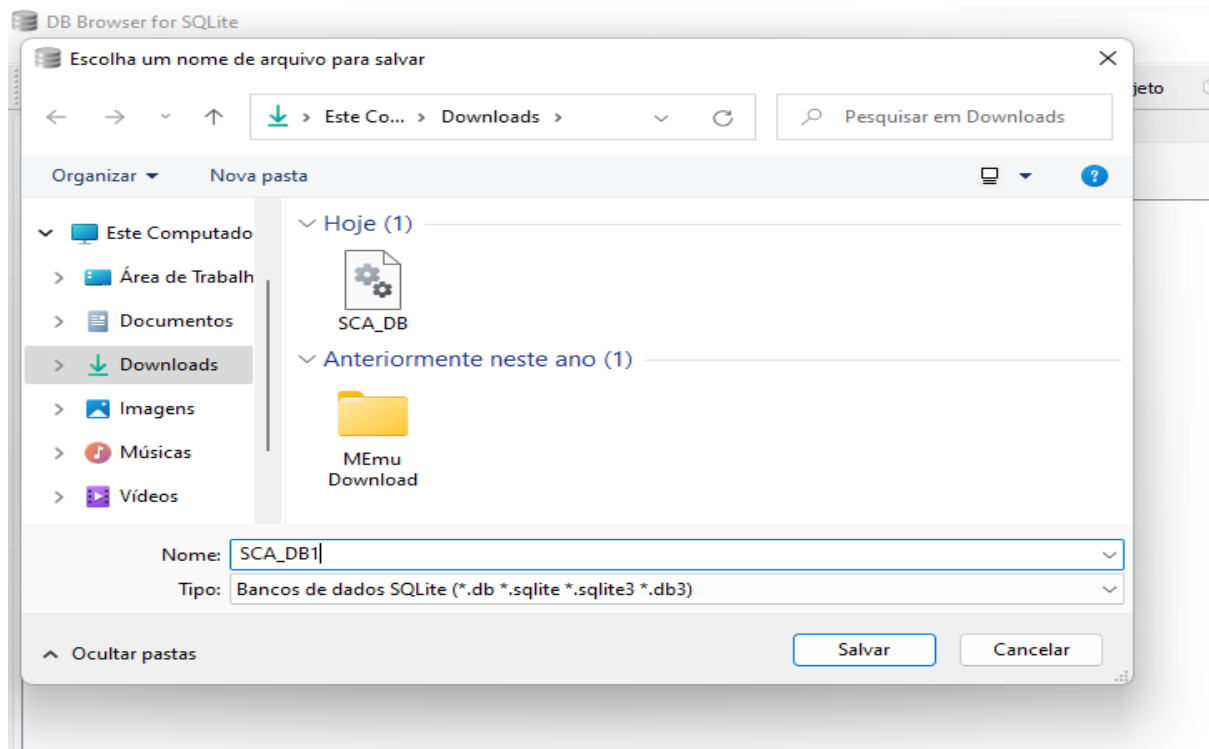
5º passo: Abrir o DB Browser



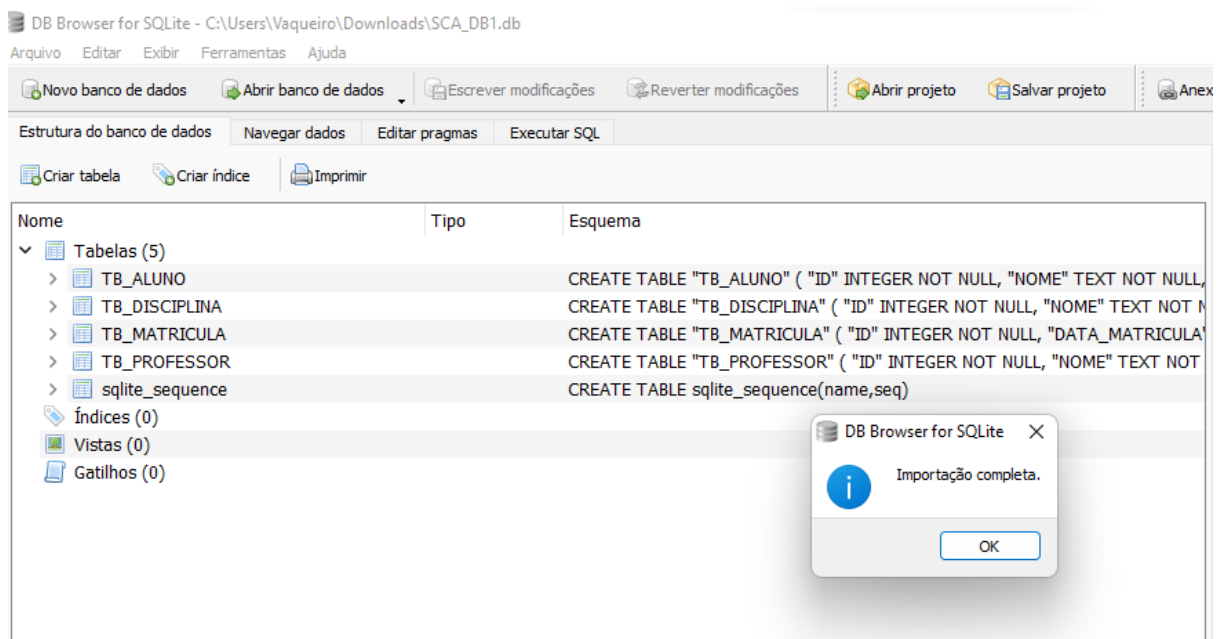
6º passo: Importar o BD a partir do arquivo SQL

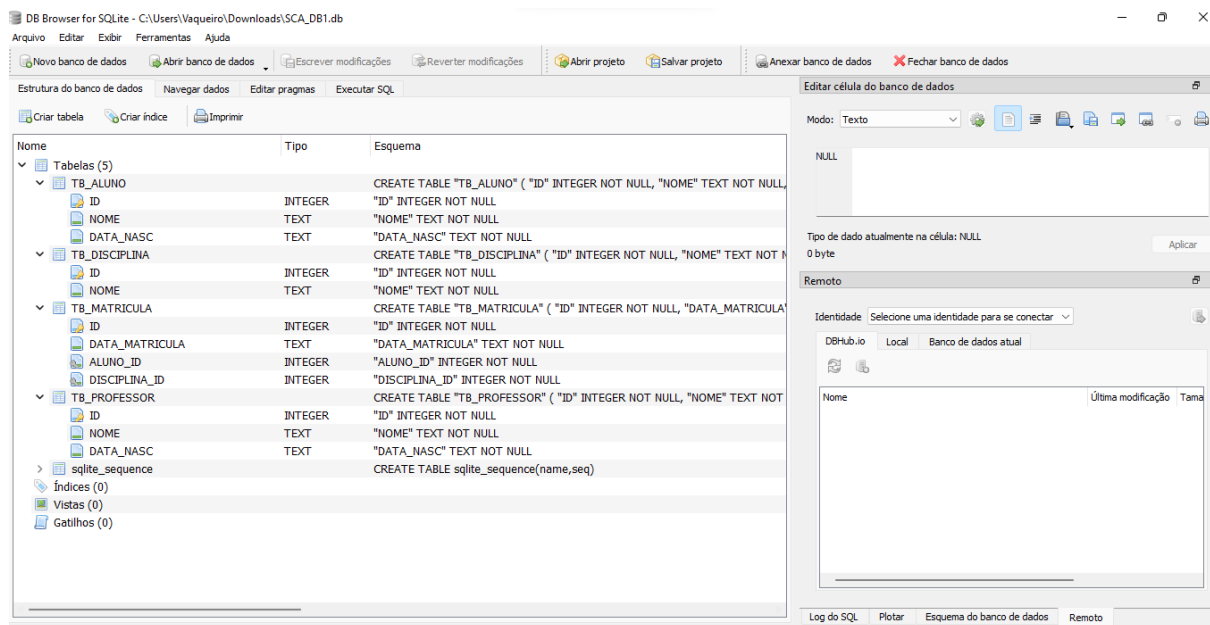




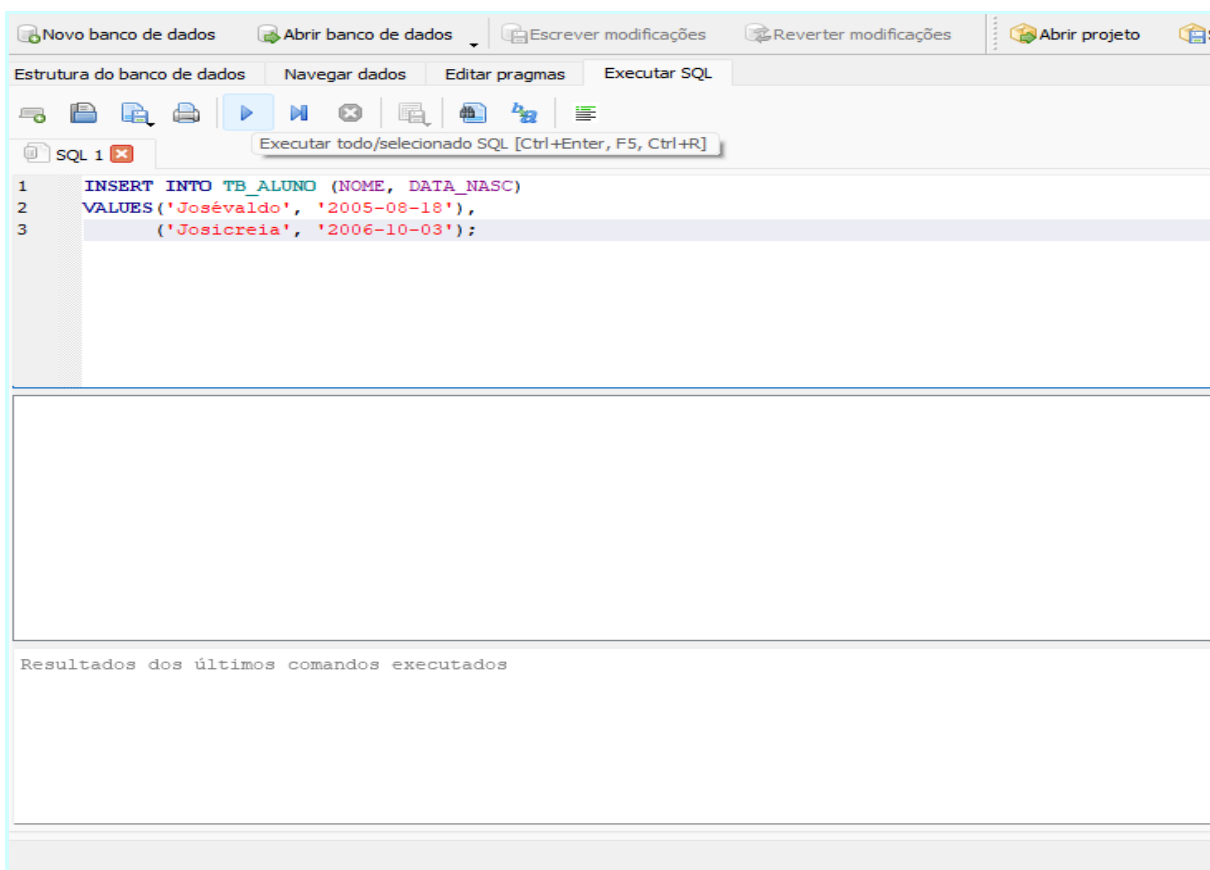


- Importação do BD feito no Replit para o DB Browser realizada com sucesso!





8º passo: Usar o DBROWSER ou Beekeeper para fazer alterações no banco de dados SCA_DB.bd



Estrutura do banco de dados
Navegar dados
Editar pragmas
Executar SQL

SQL 1

```

1  INSERT INTO TB_ALUNO (NOME, DATA_NASC)
2  VALUES ('Josévaldo', '2005-08-18'),
3         ('Josicreia', '2006-10-03');

```

Execução finalizada sem erros.
Resultado: consulta executada com sucesso. Levou 3ms, 2 linhas afetadas
Na linha 1:
INSERT INTO TB_ALUNO (NOME, DATA_NASC)
VALUES ('Josévaldo', '2005-08-18'),
('Josicreia', '2006-10-03');

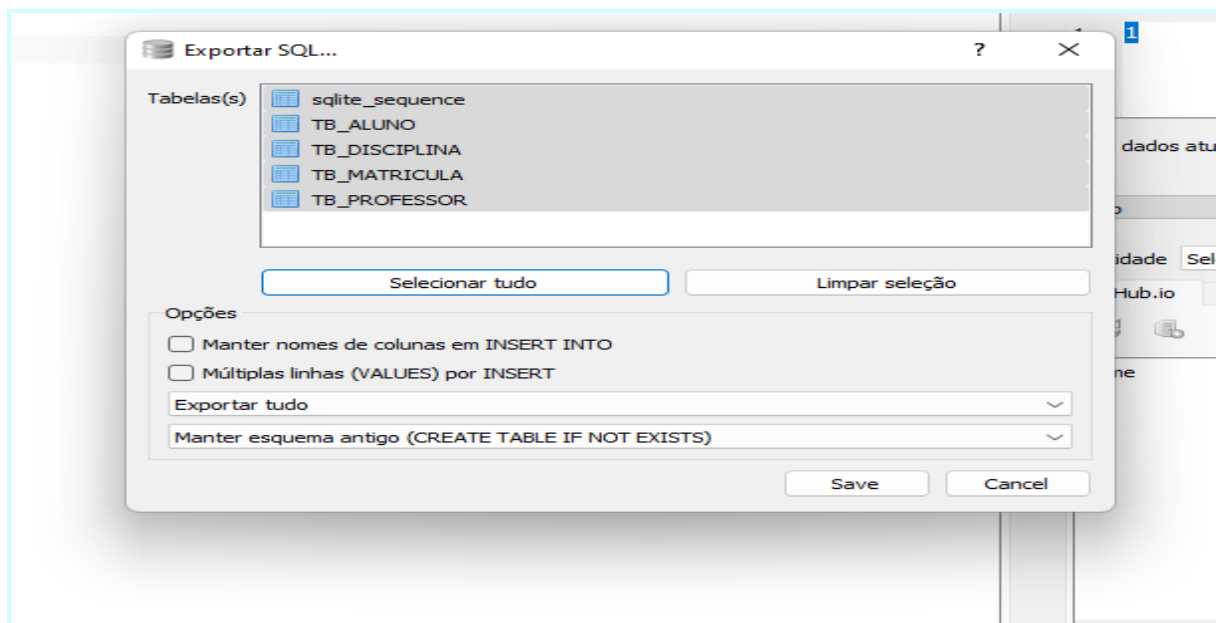
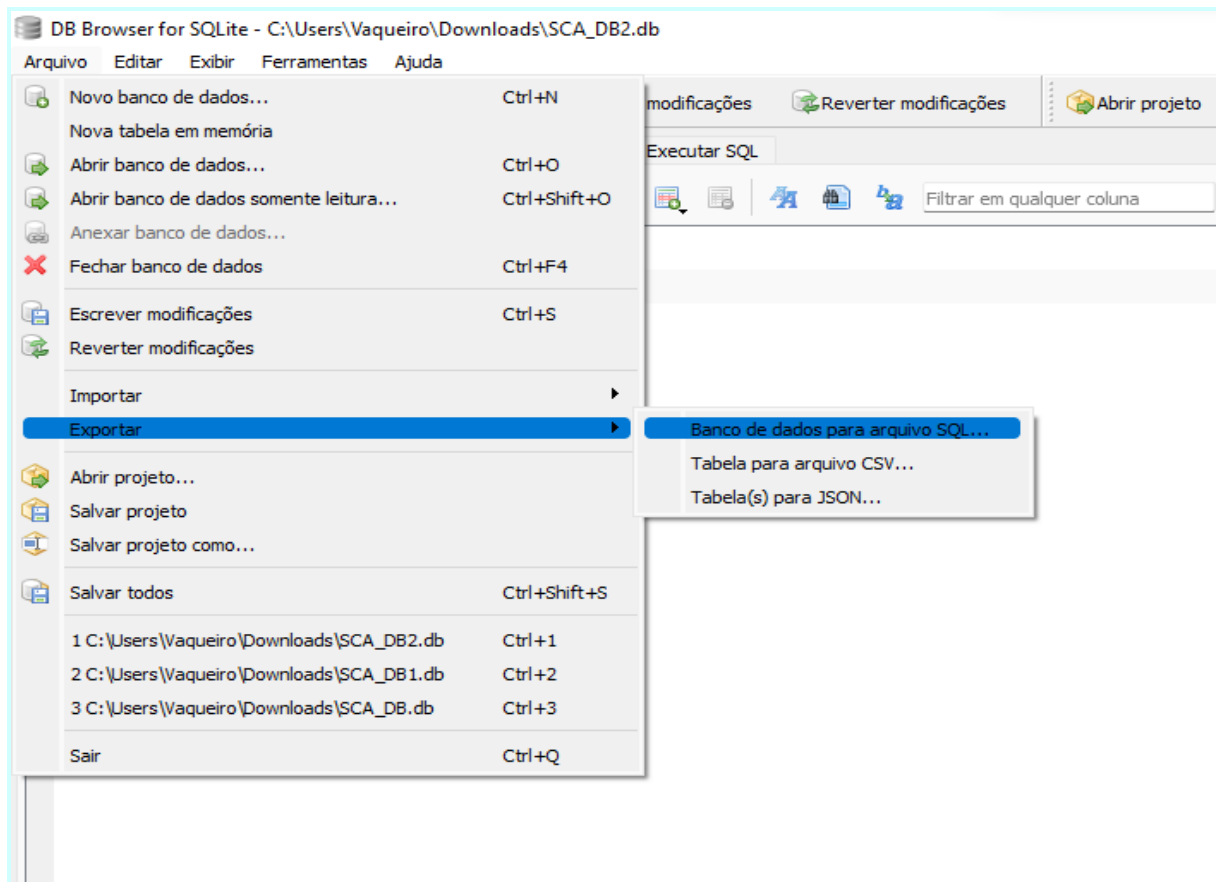
Novo banco de dados
Abrir banco de dados
Escrever modificações
Reverter modificações
Abrir projeto

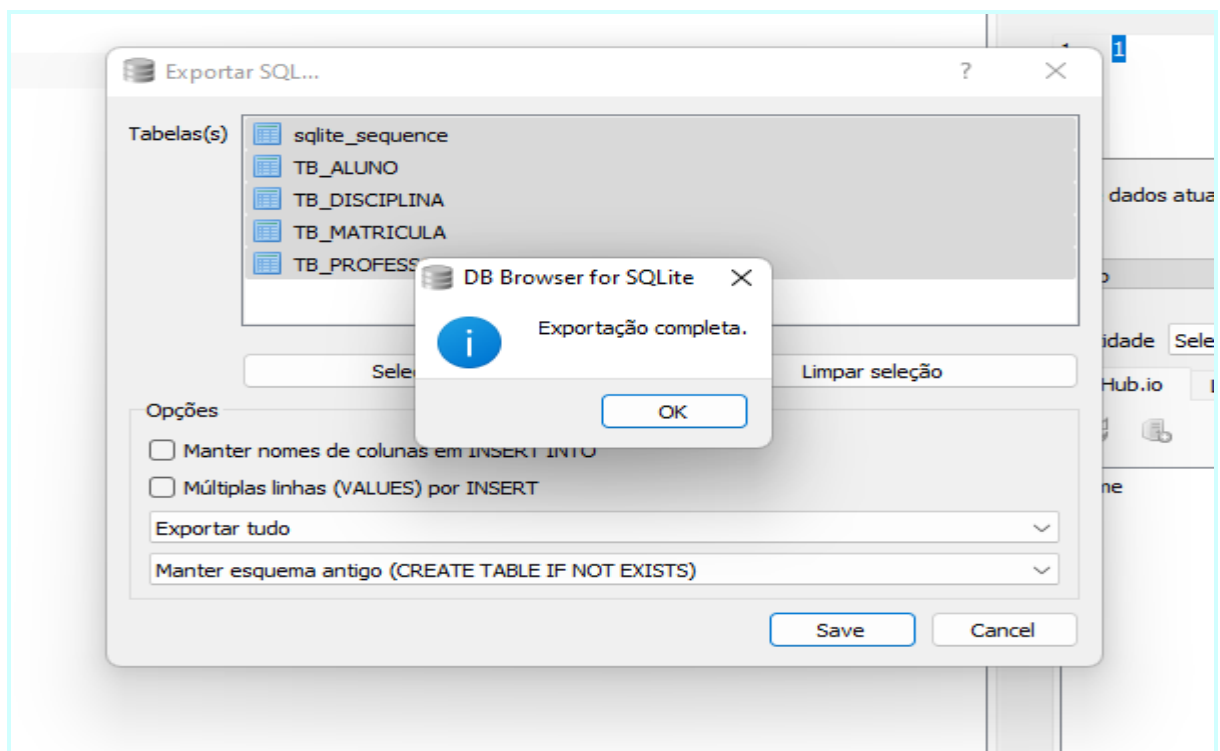
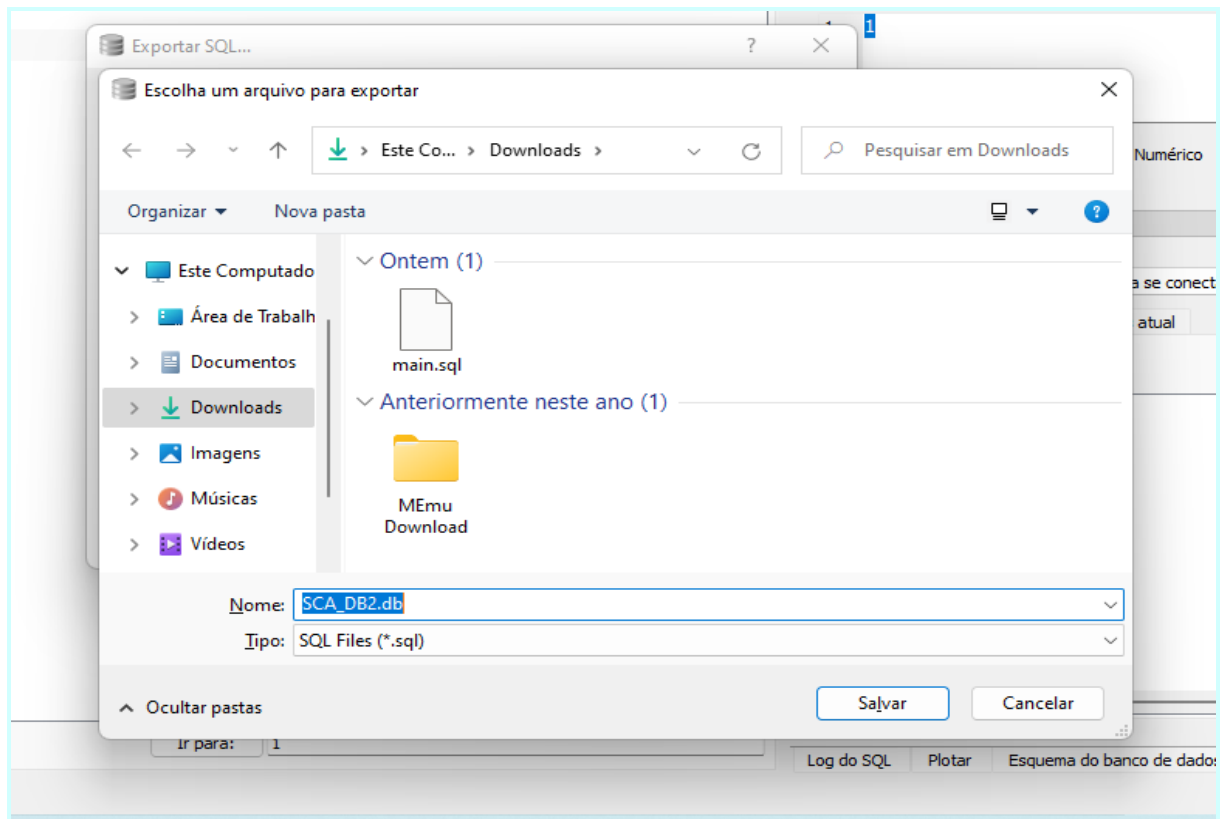
Estrutura do banco de dados
Navegar dados
Editar pragmas
Executar SQL

Tabela: TB_ALUNO

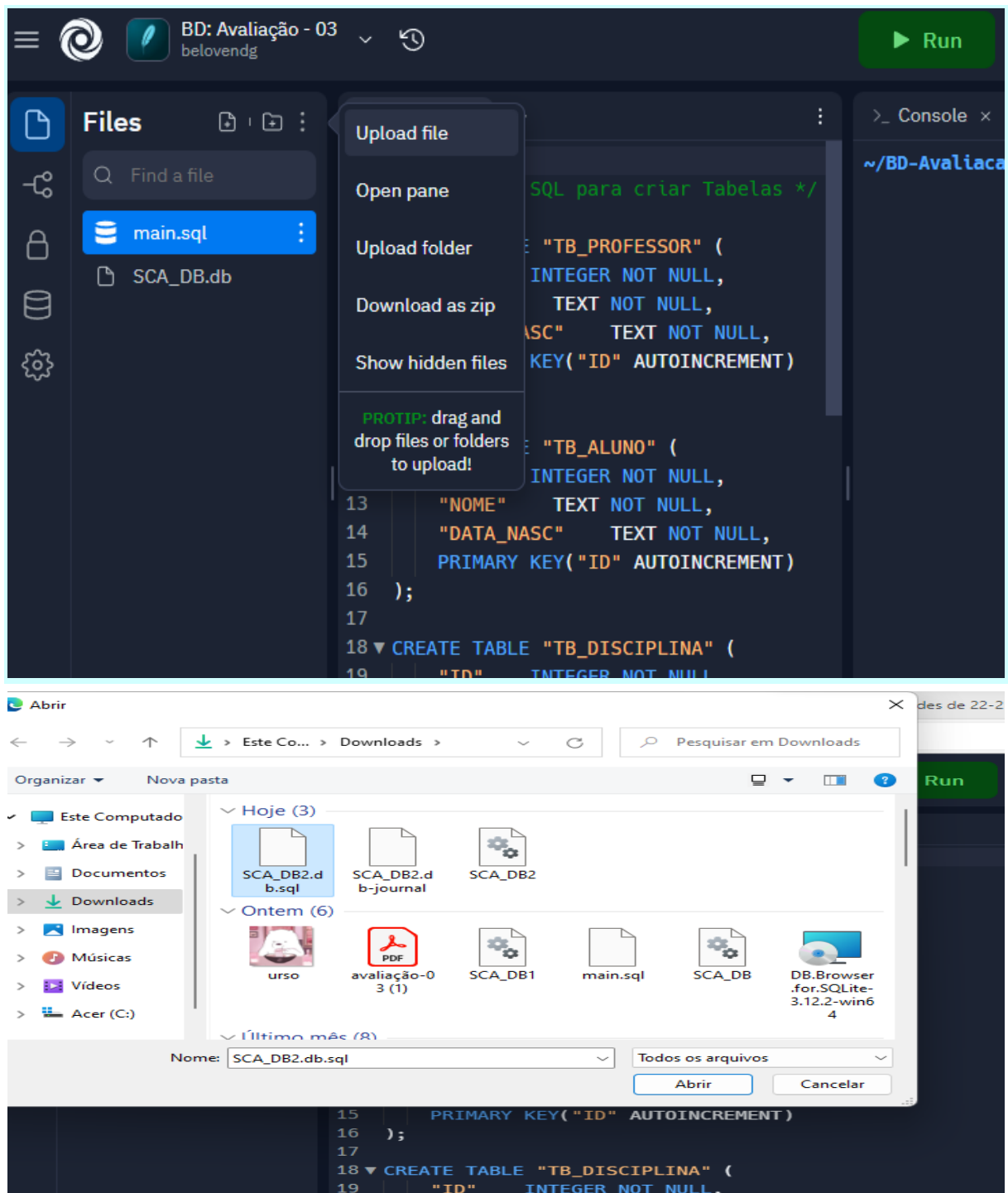
	ID	NOME	DATA_NASC
	Filtro	Filtro	Filtro
1	1	Josévaldo	2005-08-18
2	2	Josicreia	2006-10-03

9º passo: exportar o BD a partir do arquivo SQL

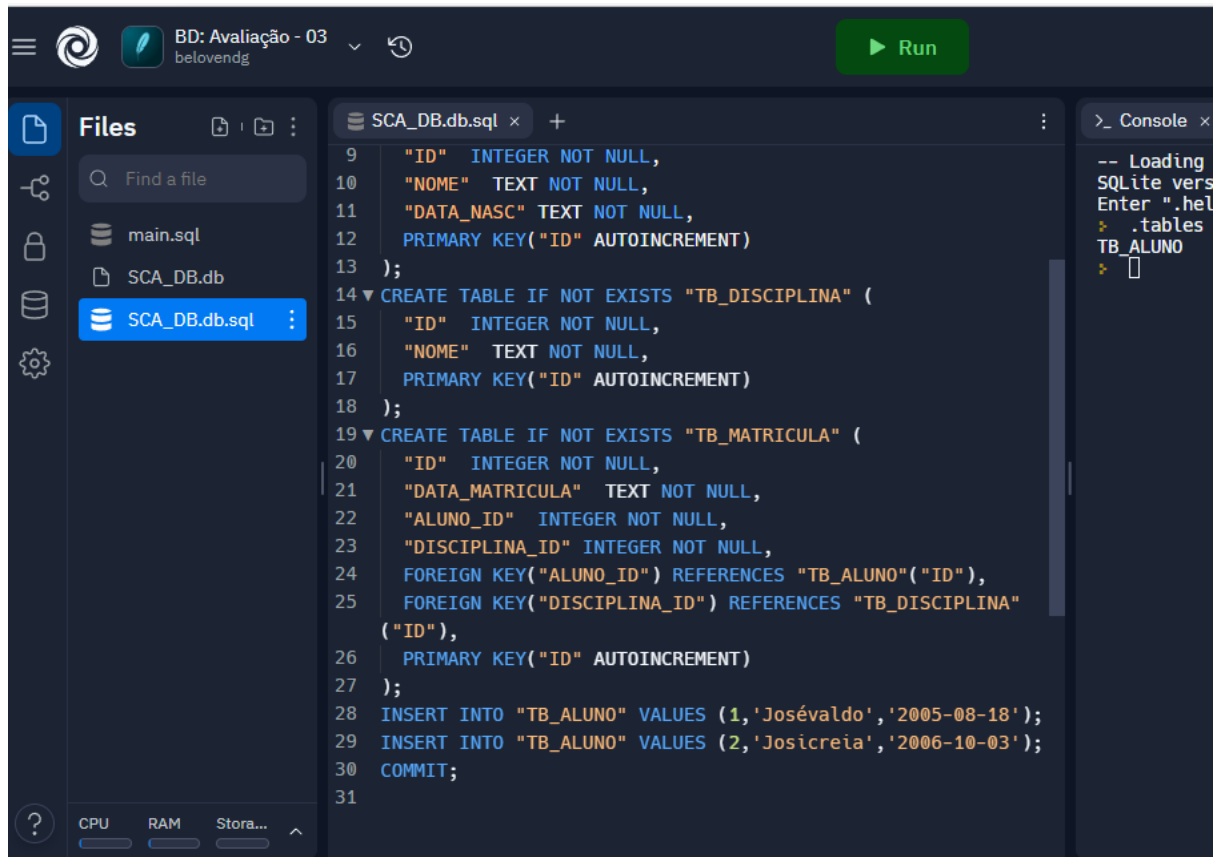




10º passo: Fazer o UPLOAD do arquivo SCA_DB.bd para o seu Replit.



- Exportação do BD alterado no BD Browser para o Replit realizada com sucesso!



The screenshot shows the Replit IDE interface. The top bar indicates the project name "BD: Avaliação - 03" and the user "belovendg". A green "Run" button is visible. The left sidebar shows the "Files" panel with a search bar and a list of files: "main.sql", "SCA_DB.db", and "SCA_DB.db.sql". The main editor displays the content of "SCA_DB.db.sql", which contains SQL code for creating three tables and inserting data. The console on the right shows the output of the SQL execution, including the SQLite version and a list of tables.

```
9  "ID" INTEGER NOT NULL,
10 "NOME" TEXT NOT NULL,
11 "DATA_NASC" TEXT NOT NULL,
12 PRIMARY KEY("ID" AUTOINCREMENT)
13 );
14 CREATE TABLE IF NOT EXISTS "TB_DISCIPLINA" (
15   "ID" INTEGER NOT NULL,
16   "NOME" TEXT NOT NULL,
17   PRIMARY KEY("ID" AUTOINCREMENT)
18 );
19 CREATE TABLE IF NOT EXISTS "TB_MATRICULA" (
20   "ID" INTEGER NOT NULL,
21   "DATA_MATRICULA" TEXT NOT NULL,
22   "ALUNO_ID" INTEGER NOT NULL,
23   "DISCIPLINA_ID" INTEGER NOT NULL,
24   FOREIGN KEY("ALUNO_ID") REFERENCES "TB_ALUNO"("ID"),
25   FOREIGN KEY("DISCIPLINA_ID") REFERENCES "TB_DISCIPLINA"
26   ("ID"),
27   PRIMARY KEY("ID" AUTOINCREMENT)
28 );
29 INSERT INTO "TB_ALUNO" VALUES (1,'Josévaldo','2005-08-18');
30 INSERT INTO "TB_ALUNO" VALUES (2,'Josicreia','2006-10-03');
31 COMMIT;
```

Console output:

```
-- Loading
SQLite vers
Enter ".hel
> .tables
TB_ALUNO
```