

Banco de dados

Nome: Kamyly Ferreira da Paixão | P4 de Informática

Modelagem, Criação e Manipulação de Banco de Dados (CRUD)

TB_ALUNO → está relacionado com **TB_CURSO**

Cardinalidade: Muitos alunos (N) estão em um curso (1).

TB_DISCIPLINA <-> **TB_ALUNO**

Relacionamento N:N → Um aluno pode estar em várias disciplinas e uma disciplina pode ter vários alunos.

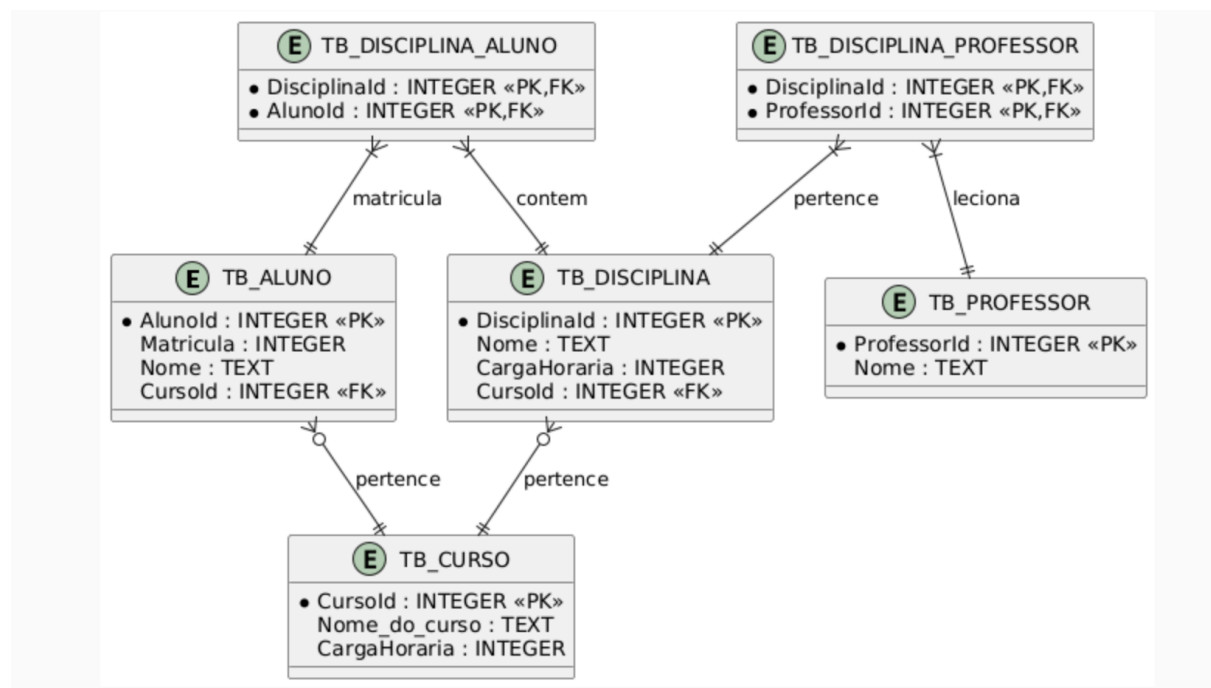
TB_DISCIPLINA <-> **TB_PROFESSOR**

Relacionamento N:N → Uma disciplina pode ter vários professores e um professor pode lecionar várias disciplinas.

TB_DISCIPLINA → **TB_CURSO**

Cardinalidade: Muitas disciplinas (N) fazem parte de um curso (1).

DIAGRAMA



CRIAÇÃO DAS TABELAS:

Table

TB_ALUNO

Advanced

Fields Index Constraints Foreign Keys Check Constraints

Add Remove Move to top Move up Move down Move to bottom

Name	Type	NN	PK	AI	U	Default	Check	Collation	Foreign Key
AlunoId	INTEGER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
Nome_do_aluno	TEXT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
Matricula	INTEGER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
Cursold	INTEGER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		"TB_CURSO"("Cursold")

```
1 CREATE TABLE "TB_ALUNO" (  
2   "AlunoId" INTEGER,  
3   "Nome_do_aluno" TEXT NOT NULL,  
4   "Matricula" INTEGER NOT NULL,  
5   "Cursold" INTEGER,  
6   PRIMARY KEY("AlunoId" AUTOINCREMENT),  
7   FOREIGN KEY("Cursold") REFERENCES "TB_CURSO"("Cursold")  
8 );
```

Cancel OK

Table

TB_CURSO

Advanced

Fields Index Constraints Foreign Keys Check Constraints

Add Remove Move to top Move up Move down Move to bottom

Name	Type	NN	PK	AI	U	Default	Check	Collation
Cursold	INTEGER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
Nome_do_curso	TEXT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
CargaHoraria	INTEGER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

```
1 CREATE TABLE "TB_CURSO" (  
2   "Cursold" INTEGER,  
3   "Nome_do_curso" TEXT NOT NULL,  
4   "CargaHoraria" INTEGER NOT NULL,  
5   PRIMARY KEY("Cursold" AUTOINCREMENT)  
6 );
```

Cancel OK

Table

TB_DISCIPLINA_ALUNO

Advanced

Fields

Index Constraints

Foreign Keys

Check Constraints

Add

Remove

Move to top

Move up

Move down

Move to bottom

Name	Type	NN	PK	AI	U	Default	Check	Collation	Foreign Key
AlunoId	INTEGER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		TB_ALUNO("AlunoId")
DisciplinaId	INTEGER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		TB_DISCIPLINA("DisciplinaId")

```
1 CREATE TABLE "TB_DISCIPLINA_ALUNO" (  
2   "AlunoId" INTEGER,  
3   "DisciplinaId" INTEGER,  
4   PRIMARY KEY("AlunoId","DisciplinaId"),  
5   FOREIGN KEY("AlunoId") REFERENCES "TB_ALUNO"("AlunoId"),  
6   FOREIGN KEY("DisciplinaId") REFERENCES "TB_DISCIPLINA"("DisciplinaId")  
7 );
```

Cancel

OK

Table

TB_DISCIPLINA_PROFESSOR

Advanced

Fields

Index Constraints

Foreign Keys

Check Constraints

Add

Remove

Move to top

Move up

Move down

Move to bottom

Name	Type	NN	PK	AI	U	Default	Check	Collation
DisciplinaId	INTEGER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
ProfId	INTEGER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

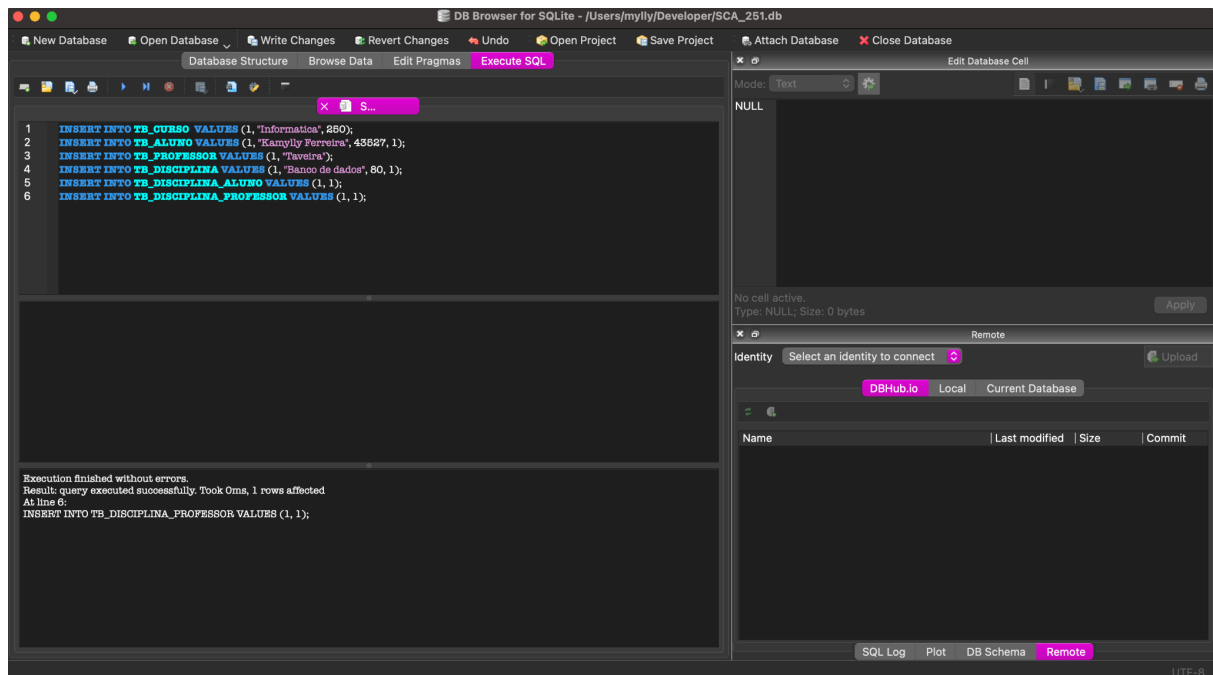
```
1 CREATE TABLE "TB_DISCIPLINA_PROFESSOR" (  
2   "DisciplinaId" INTEGER,  
3   "ProfId" INTEGER,  
4   PRIMARY KEY("DisciplinaId","ProfId"),  
5   FOREIGN KEY("DisciplinaId") REFERENCES "TB_DISCIPLINA"("DisciplinaId"),  
6   FOREIGN KEY("ProfId") REFERENCES "TB_PROFESSOR"("ProfId")  
7 );
```

Cancel

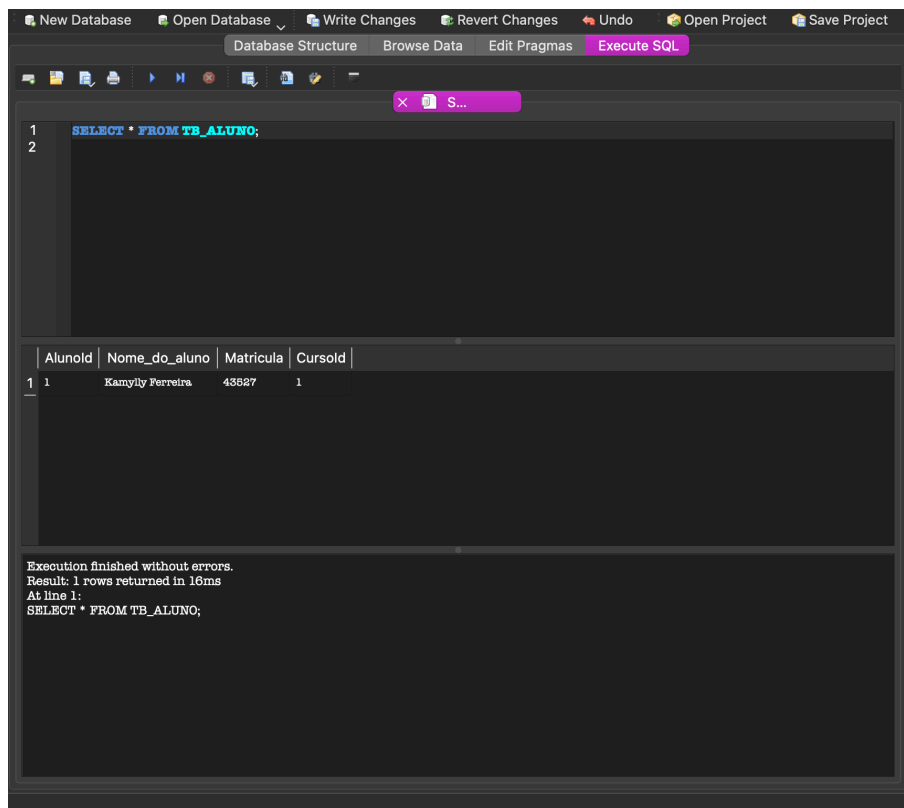
OK

CRUD(Insert, Select, Update e Delete)

CREATE:



READ:



New DatabaseOpen DatabaseWrite ChangesRevert ChangesUndoOpen ProjectSave Project

Database StructureBrowse DataEdit PragmasExecute SQL

×

S...

1

2

3

SELECT * FROM TB_DISCIPLINA;

	Disciplinald	Nome_da_disciplina	CargaHoraria	Cursold
1	1	Banco de dados	80	1

Execution finished without errors.

Result: 1 rows returned in 16ms

At line 1:

SELECT * FROM TB_DISCIPLINA;

New DatabaseOpen DatabaseWrite ChangesRevert ChangesUndoOpen ProjectSave Project

Database StructureBrowse DataEdit PragmasExecute SQL

×

S...

1SELECT * FROM TB_DISCIPLINA_ALUNO;

2

	Alunoid	Disciplinald
1	1	1

Execution finished without errors.
Result: 1 rows returned in 16ms
At line 1:
SELECT * FROM TB_DISCIPLINA_ALUNO;

New DatabaseOpen DatabaseWrite ChangesRevert ChangesUndoOpen ProjectSave Project

Database StructureBrowse DataEdit PragmasExecute SQL

×

S...

1

SELECT * FROM TB_DISCIPLINA_PROFESSOR;

2

	Disciplinald	ProfId
1	1	1

Execution finished without errors.
Result: 1 rows returned in 16ms
At line 1:
SELECT * FROM TB_DISCIPLINA_PROFESSOR;

New DatabaseOpen DatabaseWrite ChangesRevert ChangesUndoOpen ProjectSave Project

Database StructureBrowse DataEdit PragmasExecute SQL

×

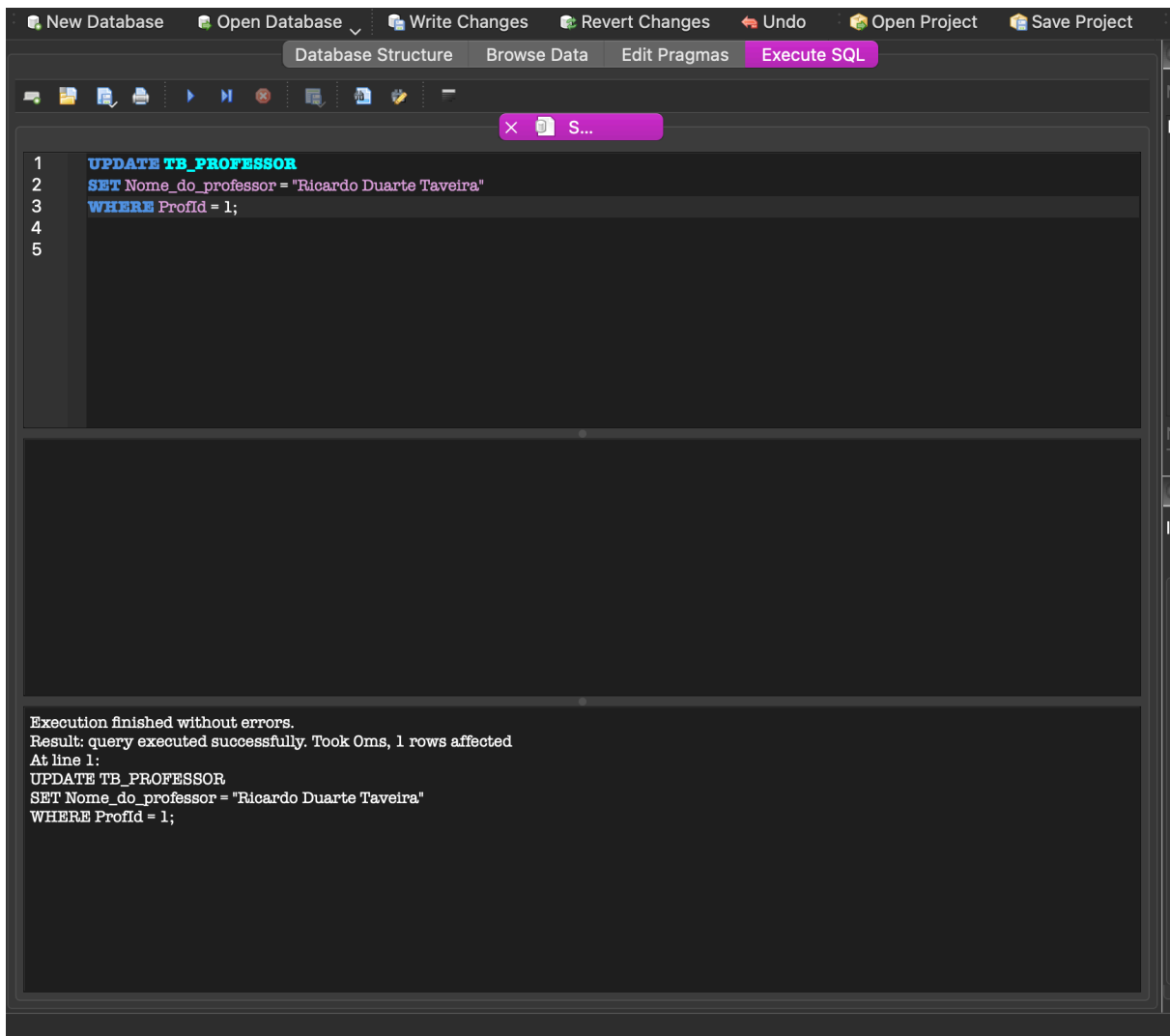
S...

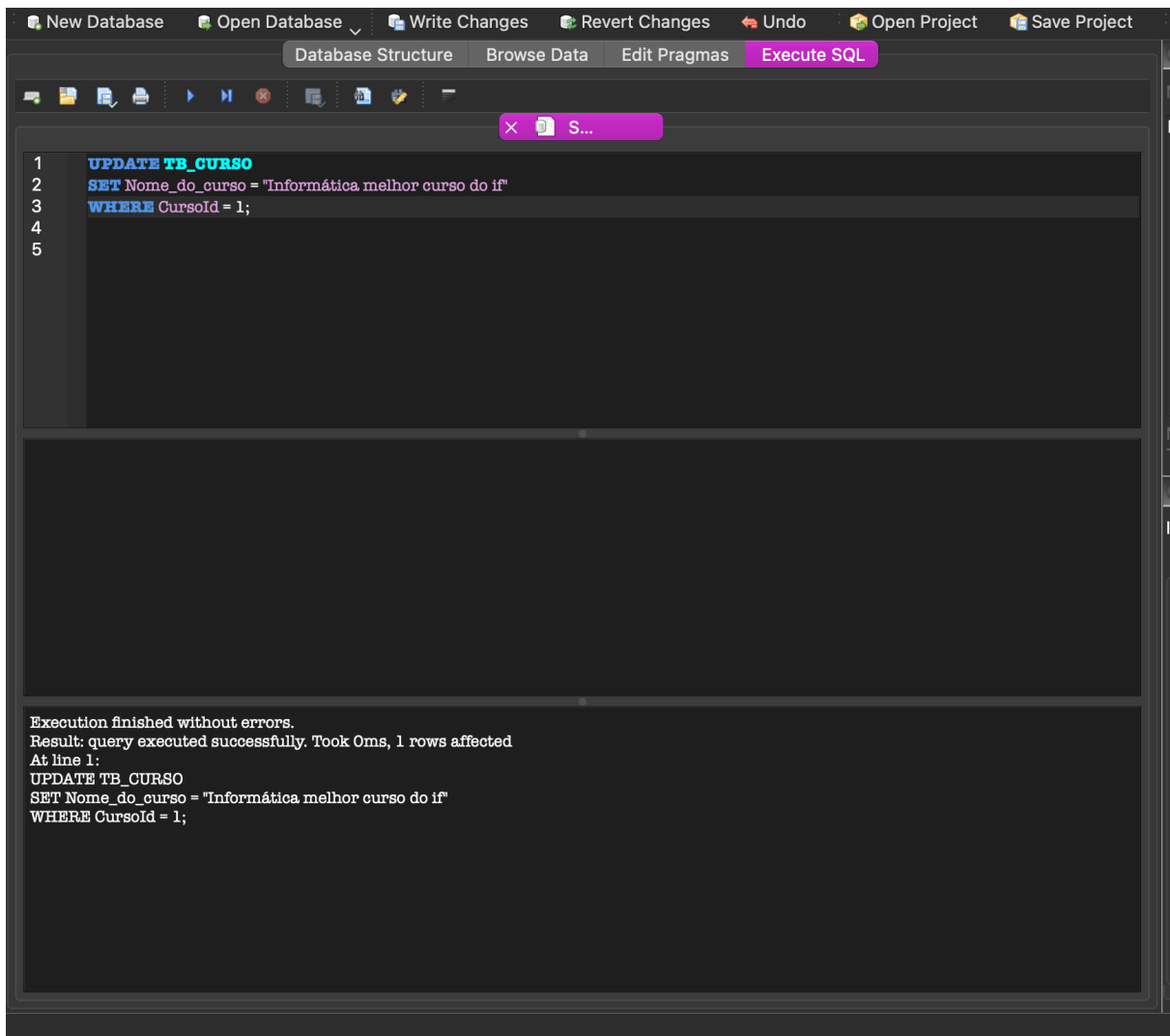
1SELECT * FROM TB_PROFESSOR;

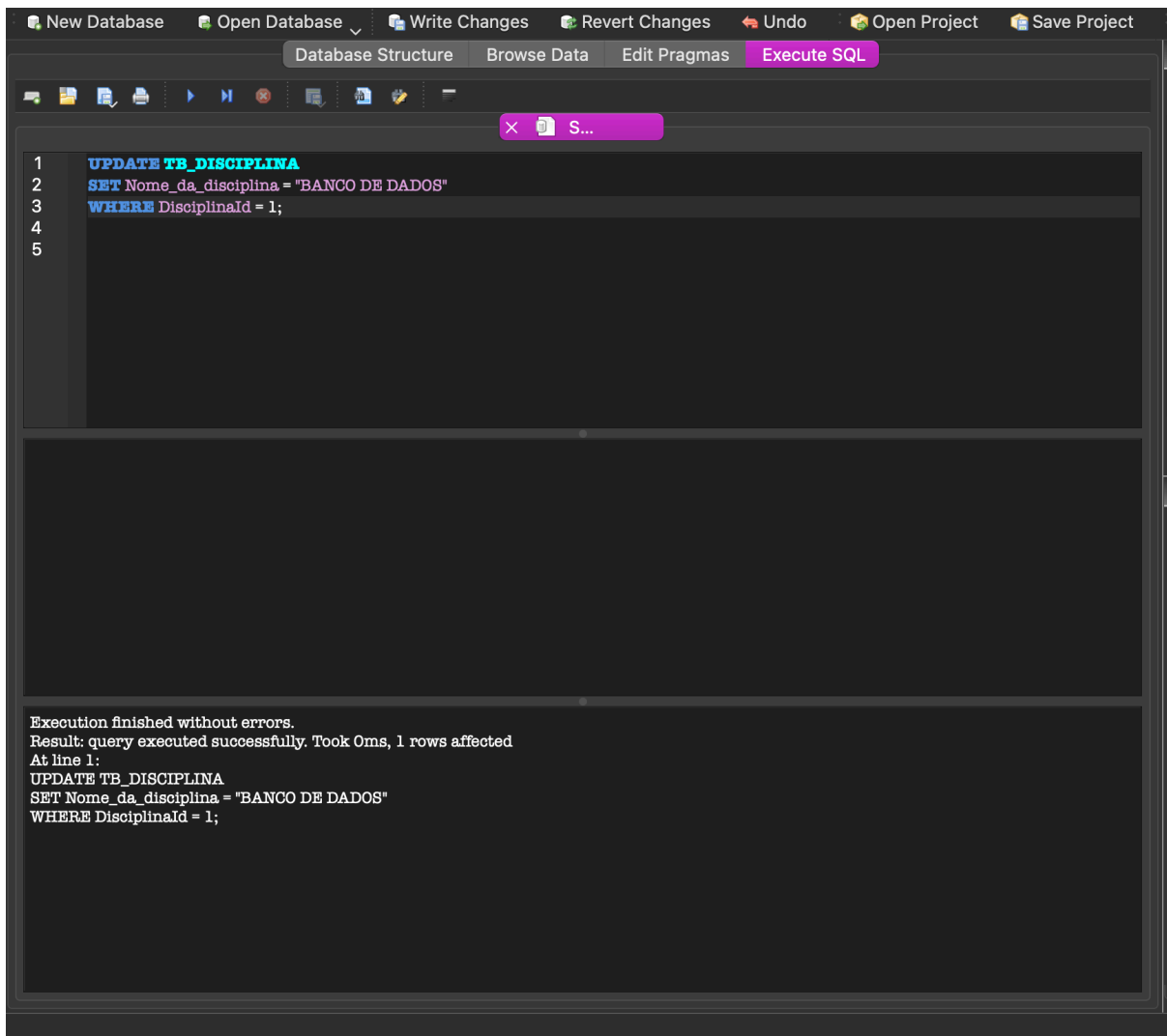
	ProfId	Nome_do_professor
1	1	Taveira

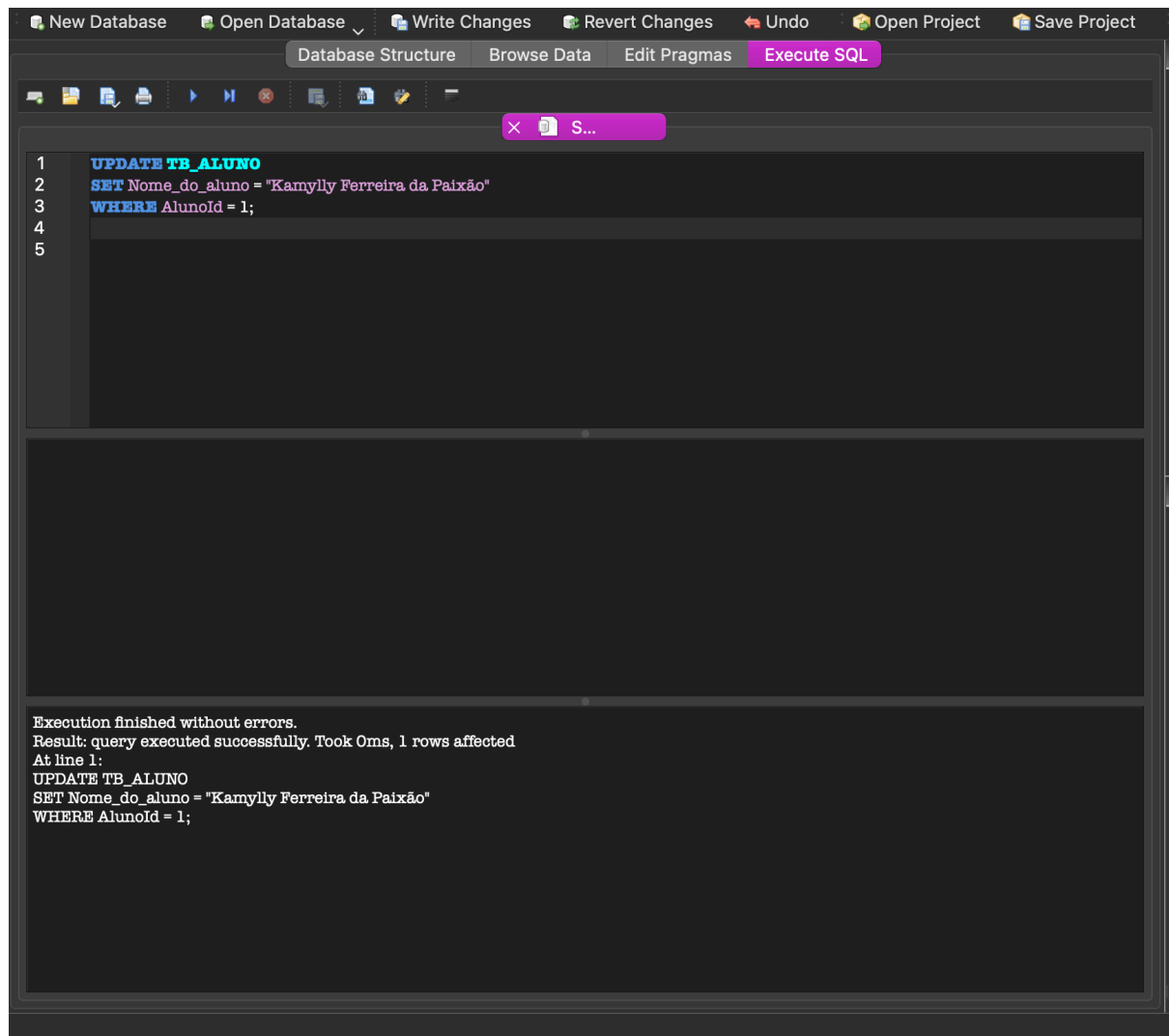
Execution finished without errors.
Result: 1 rows returned in 12ms
At line 1:
SELECT * FROM TB_PROFESSOR;

UPDATE:









DELETE:

