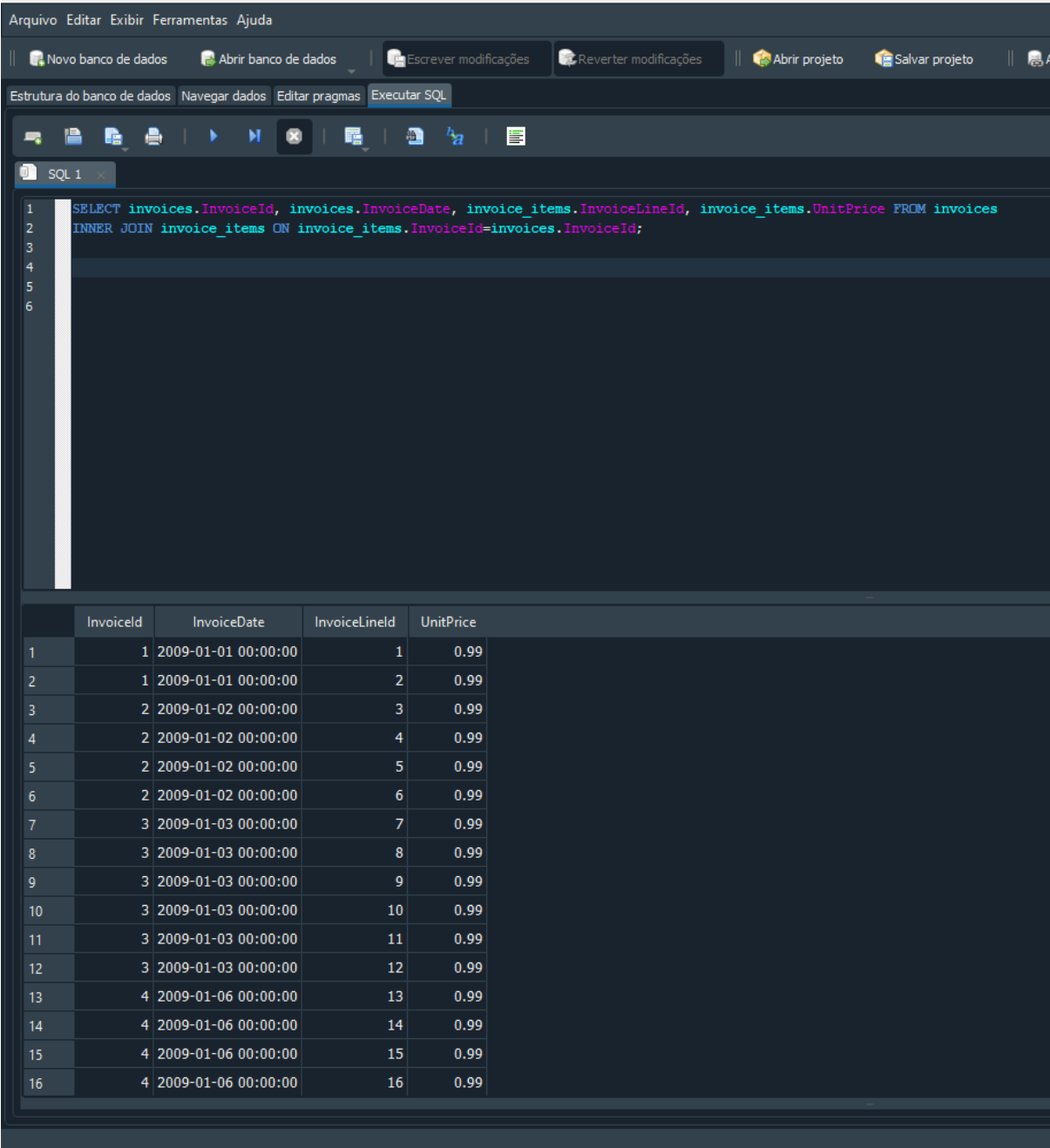


JÚLIA VITÓRIA DE SOUZA LEITE

P4-INFORMÁTICA

1 QUESTÃO



The screenshot shows a SQL IDE interface. The top menu bar includes 'Arquivo', 'Editar', 'Exibir', 'Ferramentas', and 'Ajuda'. Below the menu is a toolbar with buttons for 'Novo banco de dados', 'Abrir banco de dados', 'Escrever modificações', 'Reverter modificações', 'Abrir projeto', and 'Salvar projeto'. The main toolbar contains icons for 'Estrutura do banco de dados', 'Navegar dados', 'Editar pragmas', and 'Executar SQL'. The SQL editor window, titled 'SQL 1', contains the following query:

```
1 SELECT invoices.InvoiceId, invoices.InvoiceDate, invoice_items.InvoiceLineId, invoice_items.UnitPrice FROM invoices
2 INNER JOIN invoice_items ON invoice_items.InvoiceId=invoices.InvoiceId;
3
4
5
6
```

Below the editor, the results of the query are displayed in a table with 5 columns: 'InvoiceId', 'InvoiceDate', 'InvoiceLineId', and 'UnitPrice'. The table contains 16 rows of data.

	InvoiceId	InvoiceDate	InvoiceLineId	UnitPrice
1	1	2009-01-01 00:00:00	1	0.99
2	1	2009-01-01 00:00:00	2	0.99
3	2	2009-01-02 00:00:00	3	0.99
4	2	2009-01-02 00:00:00	4	0.99
5	2	2009-01-02 00:00:00	5	0.99
6	2	2009-01-02 00:00:00	6	0.99
7	3	2009-01-03 00:00:00	7	0.99
8	3	2009-01-03 00:00:00	8	0.99
9	3	2009-01-03 00:00:00	9	0.99
10	3	2009-01-03 00:00:00	10	0.99
11	3	2009-01-03 00:00:00	11	0.99
12	3	2009-01-03 00:00:00	12	0.99
13	4	2009-01-06 00:00:00	13	0.99
14	4	2009-01-06 00:00:00	14	0.99
15	4	2009-01-06 00:00:00	15	0.99
16	4	2009-01-06 00:00:00	16	0.99

Arquivo Editar Exibir Ferramentas Ajuda

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

Estrutura do banco de dados Navegar dados Editar pragmas Executar SQL

SQL 1

```
1 SELECT SUM(UnitPrice) AS total_da_fatura FROM invoice_items
2
3
4
5
```

	total_da_fatura
1	2328.599999999996

2 QUESTÃO

ArquivoEditarExibirFerramentasAjuda

Novo banco de dados

Abrir banco de dados

Escrever modificações

Reverter modificações

Abbr projeto

Salvar projeto

Anexar b

Estrutura do banco de dadosNavegar dadosEditar pragmasExecutar SQLSalva modificações para o arquivo de banco de dados

SQL 1

```
1 SELECT tracks.TrackId, tracks.Name, tracks.AlbumId, albums.Title, albums.ArtistId FROM tracks
2 INNER JOIN albums ON albums.AlbumId=tracks.AlbumId;
3
4
```

	TrackId	Name	AlbumId	Title	ArtistId
1	1	For Those About To Rock (We Salute You)	1	For Those About To Rock We Salute You	1
2	6	Put The Finger On You	1	For Those About To Rock We Salute You	1
3	7	Let's Get It Up	1	For Those About To Rock We Salute You	1
4	8	Inject The Venom	1	For Those About To Rock We Salute You	1
5	9	Snowballed	1	For Those About To Rock We Salute You	1
6	10	Evil Walks	1	For Those About To Rock We Salute You	1
7	11	C.O.D.	1	For Those About To Rock We Salute You	1
8	12	Breaking The Rules	1	For Those About To Rock We Salute You	1
9	13	Night Of The Long Knives	1	For Those About To Rock We Salute You	1
10	14	Spellbound	1	For Those About To Rock We Salute You	1
11	2	Balls to the Wall	2	Balls to the Wall	2
12	3	Fast As a Shark	3	Restless and Wild	2
13	4	Restless and Wild	3	Restless and Wild	2
14	5	Princess of the Dawn	3	Restless and Wild	2
15	15	Go Down	4	Let There Be Rock	1
16	16	Dog Eat Dog	4	Let There Be Rock	1

Novo banco de dados

Abrir banco de dados

Escrever modificações

Reverter modificações

Abrir projeto

Salvar projeto

estrutura do banco de dadosCriar um novo arquivo de banco de dadosExecutar SQL

SQL 1

```
1 SELECT albums.Title, albums.ArtistId, artists.name FROM albums
2 INNER JOIN artists ON artists.ArtistId=albums.ArtistId;
3
4
```

	Title	ArtistId	Name
1	For Those About To Rock We Salute You	1	AC/DC
2	Balls to the Wall	2	Accept
3	Restless and Wild	2	Accept
4	Let There Be Rock	1	AC/DC
5	Big Ones	3	Aerosmith
6	Jagged Little Pill	4	Alanis Morissette
7	Facelift	5	Alice In Chains
8	Warner 25 Anos	6	Antônio Carlos Jobim
9	Plays Metallica By Four Cellos	7	Apocalyptica
10	Audioslave	8	Audioslave
11	Out Of Exile	8	Audioslave
12	BackBeat Soundtrack	9	BackBeat
13	The Best Of Billy Cobham	10	Billy Cobham
14	Alcohol Fueled Brewtality Live! [Disc 1]	11	Black Label Society
15	Alcohol Fueled Brewtality Live! [Disc 2]	11	Black Label Society
16	Black Sabbath	12	Black Sabbath

criar um novo arquivo de banco de dados

3 QUESTÃO

Arquivo Editar Exibir Ferramentas Ajuda

Novo banco de dados

Abrir banco de dados

Escrever modificações

Reverter modificações

Abrir projeto

Salvar projeto

Anexa

Estrutura do banco de dados Navegar dados Editar pragmas Executar SQL

SQL 1

1

2

3

4

5

6

```
SELECT tracks.TrackId, tracks.Name, tracks.Milliseconds, media_types.MediaTypeId, media_types.name FROM tracks
INNER JOIN media_types ON tracks.MediaTypeId = media_types.MediaTypeId
```

	TrackId	Name	Milliseconds	MediaTypeId	Name
1	1	For Those About To Rock (We Salute You)	343719	1	MPEG audio file
2	6	Put The Finger On You	205662	1	MPEG audio file
3	7	Let's Get It Up	233926	1	MPEG audio file
4	8	Inject The Venom	210834	1	MPEG audio file
5	9	Snowballed	203102	1	MPEG audio file
6	10	Evil Walks	263497	1	MPEG audio file
7	11	C.O.D.	199836	1	MPEG audio file
8	12	Breaking The Rules	263288	1	MPEG audio file
9	13	Night Of The Long Knives	205688	1	MPEG audio file
10	14	Spellbound	270863	1	MPEG audio file
11	15	Go Down	331180	1	MPEG audio file
12	16	Dog Eat Dog	215196	1	MPEG audio file
13	17	Let There Be Rock	366654	1	MPEG audio file
14	18	Bad Boy Boogie	267728	1	MPEG audio file
15	19	Problem Child	325041	1	MPEG audio file
16	20	Overdose	369319	1	MPEG audio file

Criar um novo arquivo de banco de dados

Pesquisar

ArquivoEditarExibirFerramentasAjuda

Novo banco de dados

Abrir banco de dados

Escrever modificações

Reverter modificações

Abrir projeto

Salvar projeto

Estrutura do banco de dadosNavegar dadosEditar pragmasExecutar SQL

SQL 1

1SELECT tracks.TrackId, tracks.Name, tracks.Milliseconds, genres.GenreId, genres.name FROM tracks

2INNER JOIN genres ON tracks.GenreId = genres.GenreId

3

4

5

6

	TrackId	Name	Milliseconds	GenreId	Name
1	1	For Those About To Rock (We Salute You)	343719	1	Rock
2	2	Balls to the Wall	342562	1	Rock
3	3	Fast As a Shark	230619	1	Rock
4	4	Restless and Wild	252051	1	Rock
5	5	Princess of the Dawn	375418	1	Rock
6	6	Put The Finger On You	205662	1	Rock
7	7	Let's Get It Up	233926	1	Rock
8	8	Inject The Venom	210834	1	Rock
9	9	Snowballed	203102	1	Rock
10	10	Evil Walks	263497	1	Rock
11	11	C.O.D.	199836	1	Rock
12	12	Breaking The Rules	263288	1	Rock
13	13	Night Of The Long Knives	205688	1	Rock
14	14	Spellbound	270863	1	Rock
15	15	Go Down	331180	1	Rock
16	16	Dog Eat Dog	215196	1	Rock

ArquivoEditarExibirFerramentasAjuda

Novo banco de dados

Abrir banco de dados

Escrever modificações

Reverter modificações

Abrir projeto

Salvar projeto

Anexar banco de dados

estrutura do banco de dadosNavegar dadosEditar pragmasExecutar SQL

SQL 1

```
1 SELECT * FROM tracks
2 WHERE Milliseconds > 2000000
3
4
5
```

	TrackId	Name	AlbumId	MediaTypeId	GenreId	Composer	Milliseconds	Bytes	UnitPrice
1	2819	Battlestar Galactica: The Story So Far	226	3	18	NULL	2622250	490750393	1.99
2	2820	Occupation / Precipice	227	3	19	NULL	5286953	1054423946	1.99
3	2821	Exodus, Pt. 1	227	3	19	NULL	2621708	475079441	1.99
4	2822	Exodus, Pt. 2	227	3	19	NULL	2618000	466820021	1.99
5	2823	Collaborators	227	3	19	NULL	2626626	483484911	1.99
6	2824	Torn	227	3	19	NULL	2631291	495262585	1.99
7	2825	A Measure of Salvation	227	3	18	NULL	2563938	489715554	1.99
8	2826	Hero	227	3	18	NULL	2713755	506896959	1.99
9	2827	Unfinished Business	227	3	18	NULL	2622038	528499160	1.99
10	2828	The Passage	227	3	18	NULL	2623875	490375760	1.99
11	2829	The Eye of Jupiter	227	3	18	NULL	2618750	517909587	1.99
12	2830	Rapture	227	3	18	NULL	2624541	508406153	1.99
13	2831	Taking a Break from All Your Worries	227	3	18	NULL	2624207	492700163	1.99
14	2832	The Woman King	227	3	18	NULL	2626376	552893447	1.99
15	2833	A Day In the Life	227	3	18	NULL	2620245	462818231	1.99
16	2834	Dirty Hands	227	3	18	NULL	2627961	537648614	1.99