

Atividade Banco de Dados II

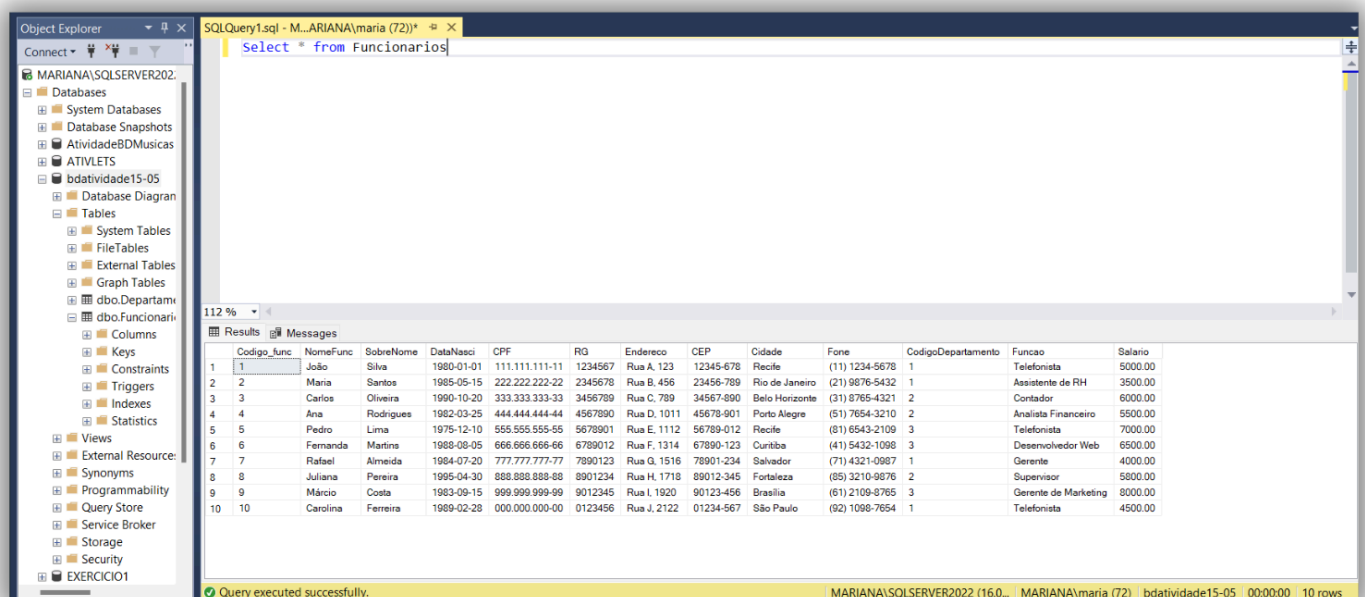
Mariana Akemi Arashiro Santos Feitosa – 3 DS AMS

Exerc Select – Funcion – GroupBy.pdf

A- Abra o banco de dados das respectivas tabelas:

Funcionarios	Departamentos
- Codigo_func (PK)	- Codigo_depto (PK)
- NomeFunc	- NomeDepto
- SobreNome	
-- DataNasci	
- CPF	
- RG	
- Endereco	
- CEP	
- Cidade	
- Fone	
- CodigoDepartamento,(FK)	
- Funcao	
- Salario	

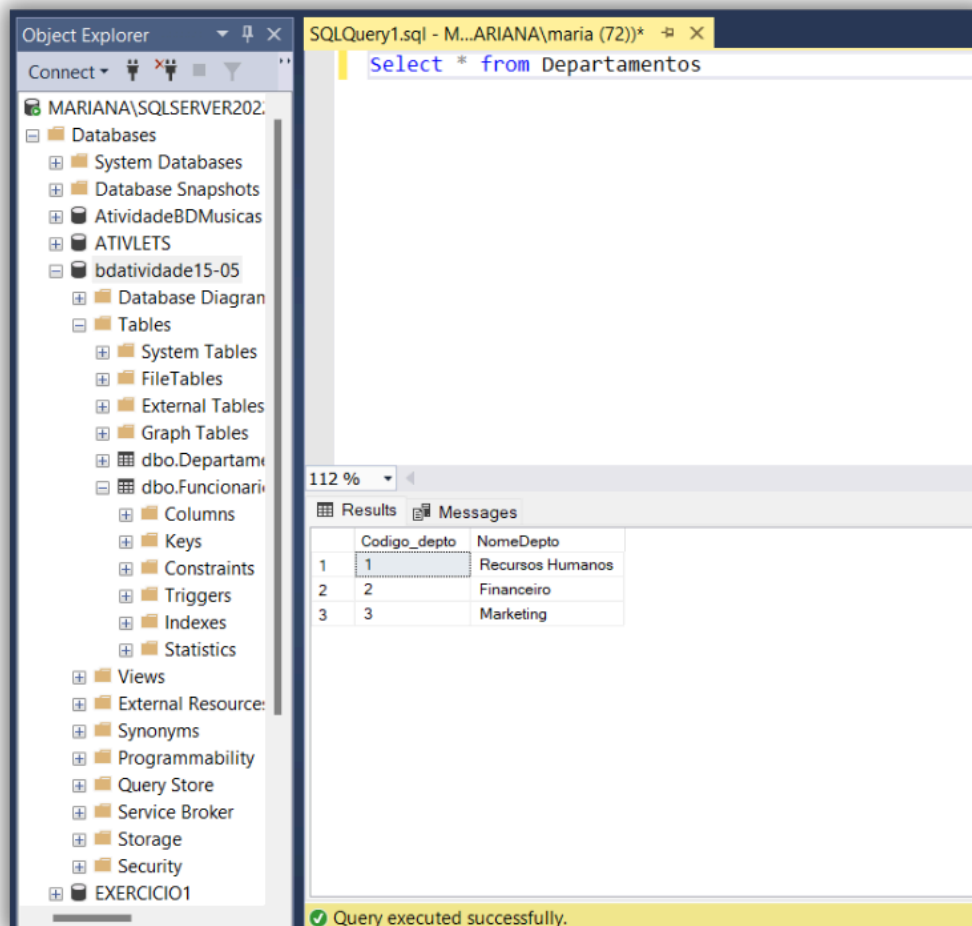
TABELA Funcionarios:



The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the database structure, including the 'bdatividade15-05' database and the 'Funcionarios' table. The right pane shows the results of a query: 'Select * from Funcionarios'. The query results are displayed in a table with 10 rows and 12 columns. The status bar at the bottom indicates that the query was executed successfully and returned 10 rows.

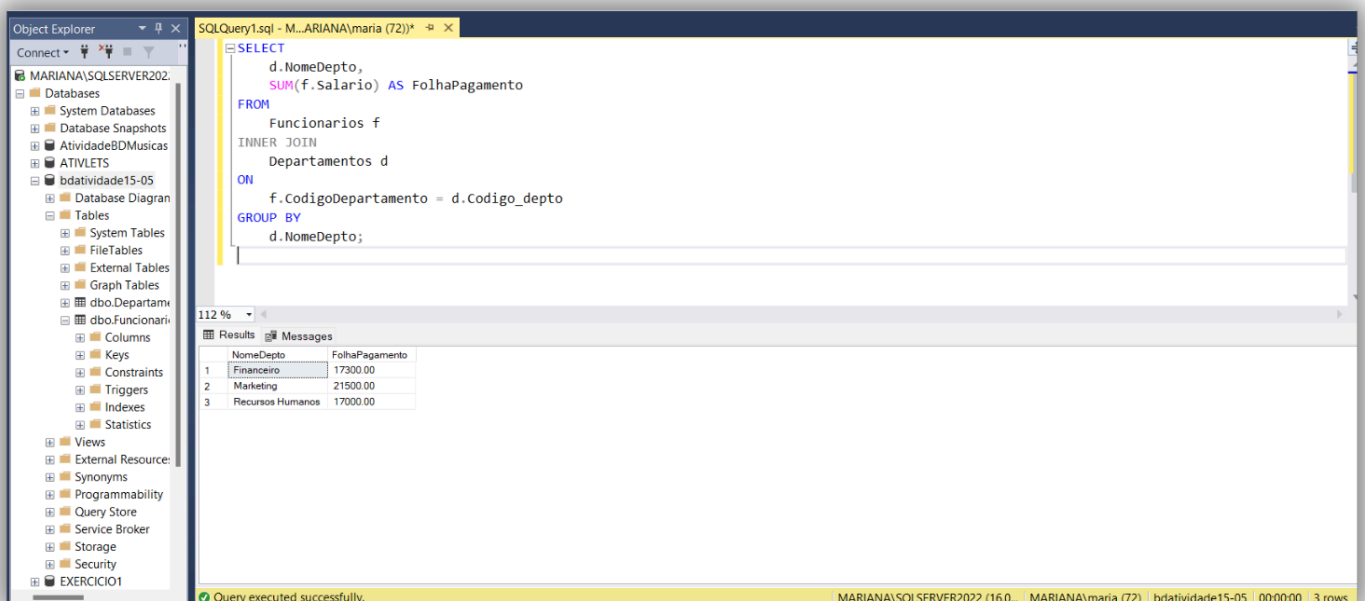
	Codigo_func	NomeFunc	SobreNome	DataNasci	CPF	RG	Endereco	CEP	Cidade	Fone	CodigoDepartamento	Funcao	Salario
1	1	João	Silva	1980-01-01	111.111.111-11	1234567	Rua A, 123	12345-678	Recife	(11) 1234-5678	1	Telefonista	5000.00
2	2	Maria	Santos	1985-05-15	222.222.222-22	2345678	Rua B, 456	23456-789	Rio de Janeiro	(21) 9876-5432	1	Assistente de RH	3500.00
3	3	Carlos	Oliveira	1990-10-20	333.333.333-33	3456789	Rua C, 789	34567-890	Belo Horizonte	(31) 8765-4321	2	Contador	6000.00
4	4	Ana	Rodrigues	1982-03-25	444.444.444-44	4567890	Rua D, 1011	45678-901	Porto Alegre	(51) 7654-3210	2	Analista Financeiro	5500.00
5	5	Pedro	Lima	1975-12-10	555.555.555-55	5678901	Rua E, 1112	56789-012	Recife	(81) 6543-2109	3	Telefonista	7000.00
6	6	Fernanda	Martins	1988-08-05	666.666.666-66	6789012	Rua F, 1314	67890-123	Curitiba	(41) 5432-1098	3	Desenvolvedor Web	6500.00
7	7	Rafael	Almeida	1984-07-20	777.777.777-77	7890123	Rua G, 1516	78901-234	Salvador	(71) 4321-0987	1	Gerente	4000.00
8	8	Juliana	Pereira	1995-04-30	888.888.888-88	8901234	Rua H, 1718	89012-345	Fortaleza	(85) 3210-9876	2	Supervisor	5800.00
9	9	Márcio	Costa	1983-09-15	999.999.999-99	9012345	Rua I, 1920	90123-456	Brasília	(61) 2109-8765	3	Gerente de Marketing	8000.00
10	10	Carolina	Ferreira	1989-02-28	000.000.000-00	0123456	Rua J, 2122	01234-567	São Paulo	(92) 1098-7654	1	Telefonista	4500.00

TABELA Departamentos:

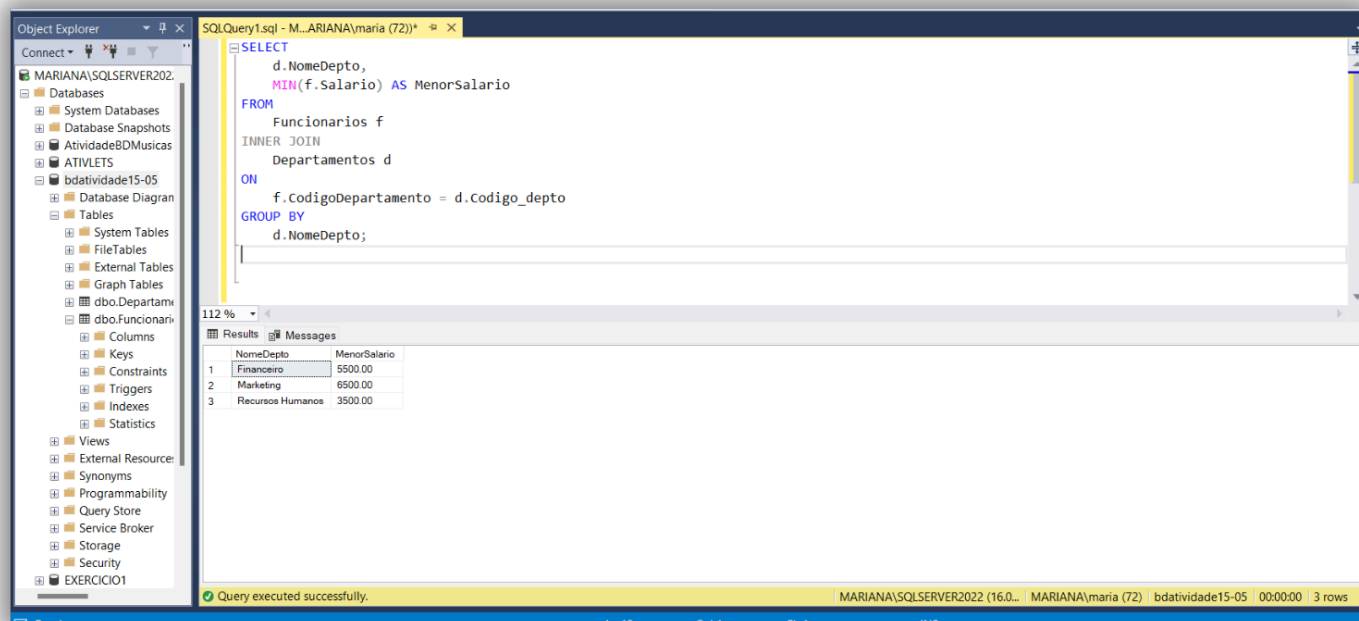


B- Utilizar os comandos Selects respectivos para efetuar as consultas abaixo:

1 – (Group by) Liste o valor da folha de pagamento de cada departamento (nome)



2 – (Group by) Liste o menor salário pago pela empresa em cada departamento



Exerc Select – Funcion – Inner Join.pdf

A- Abra o banco de dados das respectivas tabelas:

Funcionarios	Departamentos
<ul style="list-style-type: none"> - Codigo_func (PK) - NomeFunc - SobreNome -- DataNasci - CPF - RG - Endereco - CEP - Cidade - Fone - CodigoDepartamento,(FK) - Funcao - Salario 	<ul style="list-style-type: none"> - Codigo_depto (PK) - NomeDepto

TABELA Funcionarios:

Object Explorer

Connect

MARIANA\SQLSERVER2022

Databases

- System Databases
- Database Snapshots
- AtividadeBDMusicas
- ATIVLETS
- bdatividade15-05
 - Database Diagram
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Departam
 - dbo.Funcionari
 - Columns
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - Views
 - External Resource
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - EXERCICIO1

SQLQuery1.sql - M...ARIANA\maria (72)*

```
Select * from Funcionarios
```

112 %

Results Messages

	Codigo_func	NomeFunc	Sobrenome	DataNasci	CPF	RQ	Endereco	CEP	Cidade	Fone	CodigoDepartamento	Funcao	Salario
1	1	João	Silva	1980-01-01	111.111.111-11	1234567	Rua A. 123	12345-678	Recife	(11) 1234-5678	1	Telefonista	5000.00
2	2	Maria	Santos	1985-05-15	222.222.222-22	2345678	Rua B. 456	23456-789	Rio de Janeiro	(21) 9876-5432	1	Assistente de RH	3500.00
3	3	Carlos	Oliveira	1990-10-20	333.333.333-33	3456789	Rua C. 789	34567-890	Belo Horizonte	(31) 8765-4321	2	Contador	6000.00
4	4	Ana	Rodrigues	1982-03-25	444.444.444-44	4567890	Rua D. 1011	45678-901	Porto Alegre	(51) 7654-3210	2	Analista Financeiro	5500.00
5	5	Pedro	Lima	1975-12-10	555.555.555-55	5678901	Rua E. 1112	56789-012	Recife	(81) 6543-2109	3	Telefonista	7000.00
6	6	Fernanda	Martins	1988-08-05	666.666.666-66	6789012	Rua F. 1314	67890-123	Curitiba	(41) 5432-1098	3	Desenvolvedor Web	6500.00
7	7	Rafael	Almeida	1984-07-20	777.777.777-77	7890123	Rua G. 1516	78901-234	Salvador	(71) 4321-0987	1	Gerente	4000.00
8	8	Juliana	Pereira	1995-04-30	888.888.888-88	8901234	Rua H. 1718	89012-345	Fortaleza	(85) 3210-9876	2	Supervisor	5800.00
9	9	Márcio	Costa	1983-09-15	999.999.999-99	9012345	Rua I. 1920	90123-456	Brasília	(61) 2109-8765	3	Gerente de Marketing	8000.00
10	10	Carolina	Ferreira	1989-02-28	000.000.000-00	0123456	Rua J. 2122	01234-567	São Paulo	(92) 1098-7654	1	Telefonista	4500.00

Query executed successfully.

MARIANA\SQLSERVER2022 (16.0... MARIANA\maria (72) bdatividade15-05 00:00:00 10 rows

TABELA Departamentos:

Object Explorer

Connect

MARIANA\SQLSERVER2022

Databases

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 - Synonyms
 - Programmability
 - Query Store
 - Service Broker
 - Storage
 - Security
 - EXERCICIO1

SQLQuery1.sql - M...ARIANA\maria (72)*

```
Select * from Departamentos
```

112 %

Results Messages

	Codigo_depto	NomeDepto
1	1	Recursos Humanos
2	2	Financeiro
3	3	Marketing

Query executed successfully.

B- Utilizar os comandos Selects respectivos para efetuar as consultas abaixo:

Select com Inner Join

1 - Liste o nome completo do funcionário, o nome do departamento e a função de todos os funcionários

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'MARIANA\SQLSERVER2022'. The central pane shows a SQL query in 'SQLQuery1.sql' that selects employee details from the 'Funcionarios' and 'Departamentos' tables. The bottom pane displays the results of the query, showing 10 rows of employee data.

```
SELECT
    f.NomeFunc,
    f.SobreNome,
    d.NomeDepto,
    f.Funcao
FROM
    Funcionarios f
INNER JOIN
    Departamentos d
ON
    f.CodigoDepartamento = d.Codigo_depto;
```

	NomeFunc	SobreNome	NomeDepto	Funcao
1	João	Silva	Recursos Humanos	Telefonista
2	Maria	Santos	Recursos Humanos	Assistente de RH
3	Carlos	Oliveira	Financeiro	Contador
4	Ana	Rodrigues	Financeiro	Analista Financeiro
5	Pedro	Lima	Marketing	Telefonista
6	Fernanda	Martins	Marketing	Desenvolvedor Web
7	Rafael	Almeida	Recursos Humanos	Gerente
8	Juliana	Pereira	Financeiro	Supervisor
9	Márcio	Costa	Marketing	Gerente de Marketing
10	Carolina	Ferreira	Recursos Humanos	Telefonista

Query executed successfully. MARIANA\SQLSERVER2022 (16.0...) MARIANA\maria (72) bdatividade15-05 00:00:00 10 rows

2 - Liste os nomes dos departamentos e dos funcionários que têm a função de supervisor

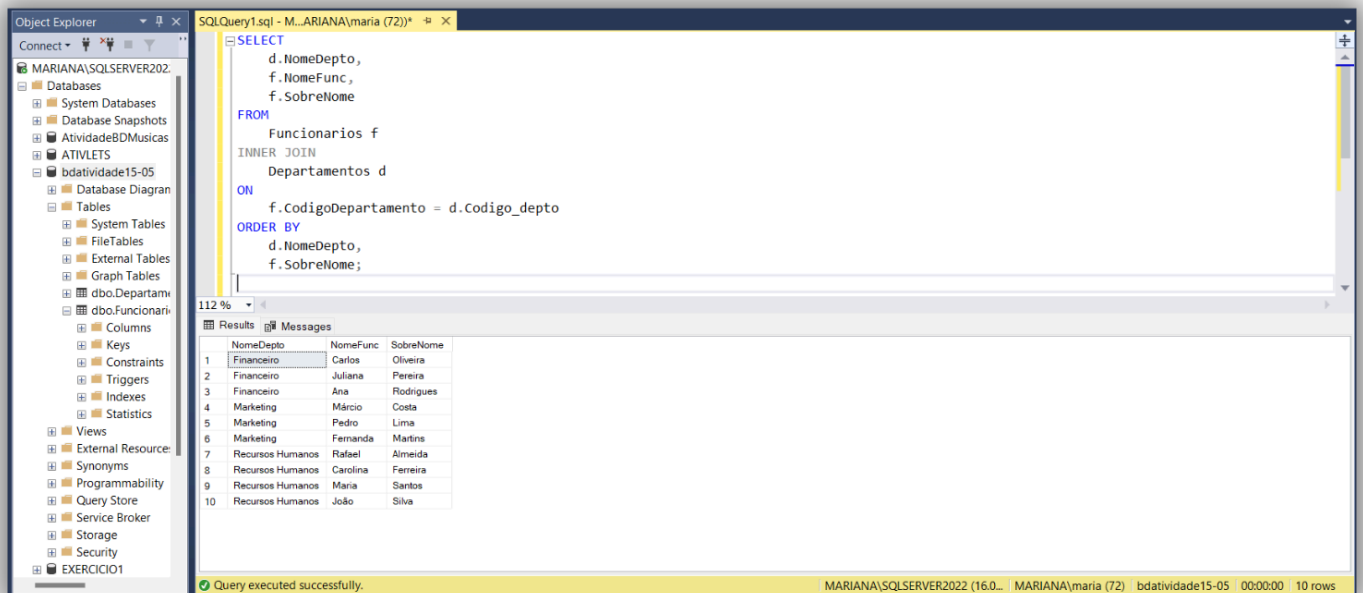
The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'MARIANA\SQLSERVER2022'. The central pane shows a SQL query in 'SQLQuery1.sql' that selects department and employee names for supervisors. The bottom pane displays the results of the query, showing 1 row of data.

```
SELECT
    d.NomeDepto,
    f.NomeFunc,
    f.SobreNome
FROM
    Funcionarios f
INNER JOIN
    Departamentos d
ON
    f.CodigoDepartamento = d.Codigo_depto
WHERE
    f.Funcao = 'Supervisor';
```

	NomeDepto	NomeFunc	SobreNome
1	Financeiro	Juliana	Pereira

Query executed successfully. MARIANA\SQLSERVER2022 (16.0...) MARIANA\maria (72) bdatividade15-05 00:00:00 1 rows

3 - Liste o nome do departamento e nome completo do funcionário ordenados por departamento e Sobrenome do funcionário



Exerc Select - CD - GroupBy

A - Abra o banco de dados com as respectivas tabelas:

Cds	Musicas
Codigo (PK)	CodigoCD (FK)
Nome_cd	Numero_musica
DataCompra	Nome_musica
ValorPago	Artista
LocalCompra	Tempo
Album (Sim ou Não)	

TABELA Cds:

Object Explorer: MARIANA\SQLSERVER2022 (C:\Program Files\Microsoft SQL Server\160\...)

SQLQuery2.sql - M...ARIANA\maria (74)*

```
Select * from Cds
```

112 %

Results Messages

	Codigo	Nome_cd	DataCompra	ValorPago	LocalCompra	Album
1	1	Lover	2023-01-15	19.99	Amazon	Sim
2	2	Reputation	2023-02-20	15.49	Submarino	Não
3	3	The Tortured Poets Department	2023-03-05	22.75	Target	Sim
4	4	RED	2023-04-10	18.99	Spotify	Sim
5	5	Folklore	2023-05-15	20.00	Amazon	Sim

Query executed successfully. MARIANA\SQLSERVER2022 (16.0... MARIANA\maria (74) AtividadeBDMusicas 00:00:00 5 rows

TABELA Musicas:

Object Explorer: MARIANA\SQLSERVER2022 (C:\Program Files\Microsoft SQL Server\160\...)

SQLQuery2.sql - M...ARIANA\maria (74)*

```
Select * from Musicas
```

112 %

Results Messages

	Codigo	CodigoCD	Numero_musica	Nome_musica	Artista	Tempo
1	41	1	1	Now That We Dont Talk	Taylor Swift	00:03:30.0000000
2	42	1	2	Obsessed	Olivia Rodrigo	00:04:15.0000000
3	43	1	3	The Black Dog	Taylor Swift	00:05:00.0000000
4	44	2	1	loml	Taylor Swift	00:04:00.0000000
5	45	2	2	Deja Vu	Olivia Rodrigo	00:03:45.0000000
6	46	2	3	Fortnight	Taylor Swift	00:04:30.0000000
7	47	3	1	The Manuscript	Taylor Swift	00:04:20.0000000
8	48	3	2	Trator	Olivia Rodrigo	00:03:55.0000000
9	49	3	3	Anti-Hero	Taylor Swift	00:04:10.0000000
10	50	4	1	End Game	Taylor Swift	00:05:25.0000000
11	51	4	2	Drivers License	Olivia Rodrigo	00:04:40.0000000
12	52	4	3	Ready For It?	Taylor Swift	00:03:20.0000000
13	53	5	1	Better Man	Taylor Swift	00:04:45.0000000
14	54	5	2	Hope ur ok	Olivia Rodrigo	00:05:15.0000000
15	55	5	3	The Moment I Knew	Taylor Swift	00:03:50.0000000

Query executed successfully. MARIANA\SQLSERVER2022 (16.0... MARIANA\maria (74) AtividadeBDMusicas 00:00:00 15 rows

B – Utilizar os comandos Selects respectivos para efetuar as consultas abaixo:

1. (Group by) Mostre o tempo total de músicas por cd

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'MARIANA\SQLSERVER2022'. The main window shows a SQL query in the 'SQLQuery2.sql' file. The query is as follows:

```
SELECT
    c.Nome_cd,
    DATEADD(SECOND, SUM(DATEDIFF(SECOND, '00:00:00', m.Tempo)), '00:00:00') AS TempoTotal
FROM
    Cds c
INNER JOIN
    Musicas m
ON
    c.Codigo = m.CodigoCD
GROUP BY
    c.Nome_cd;
```

Below the query, the 'Results' pane shows the output of the query. It contains a table with two columns: 'Nome_cd' and 'TempoTotal'. The results are as follows:

Nome_cd	TempoTotal
Folklore	1900-01-01 00:13:50.000
Lover	1900-01-01 00:12:45.000
RED	1900-01-01 00:13:25.000
Reputation	1900-01-01 00:12:15.000
The Tortured Poets Department	1900-01-01 00:12:25.000

The status bar at the bottom indicates 'Query executed successfully.' and '5 rows'.

2. (Group by) Mostre a quantidade de Cds

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'MARIANA\SQLSERVER2022'. The main window shows a SQL query in the 'SQLQuery2.sql' file. The query is as follows:

```
SELECT
    COUNT(*) AS QuantidadeDeCds
FROM
    Cds;
```

Below the query, the 'Results' pane shows the output of the query. It contains a table with one column: 'QuantidadeDeCds'. The results are as follows:

QuantidadeDeCds
5

The status bar at the bottom indicates 'Query executed successfully.' and '1 rows'.

3. (Group by) Mostre a quantidade de músicas por cd

Object Explorer

Connect

MARIANA\SQLSERVER2022

- Databases
 - System Databases
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 - External Tables
 - Graph Tables
 - dbo.Cds
 - dbo.Musicas
 - Views
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 - Programmability
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 - Service Broker
 - Storage
 - Security
 - ATVLETS
 - bdatividade15-05
 - EXERCICIO1
 - MF
 - PROJETODS
 - Security
 - Server Objects
 - Replication
 - Management

SQLQuery2.sql - M...ARIANA\maria (74)*

```
SELECT
    c.Nome_cd,
    COUNT(m.Numero_musica) AS QuantidadeDeMusicas
FROM
    Cds c
INNER JOIN
    Musicas m
ON
    c.Codigo = m.CodigoCD
GROUP BY
    c.Nome_cd;
```

112 %

Results Messages

	Nome_cd	QuantidadeDeMusicas
1	Folklore	3
2	Lower	3
3	RED	3
4	Reputation	3
5	The Tortured Poets Department	3

Query executed successfully. MARIANA\SQLSERVER2022 (16.0... MARIANA\maria (74) AtividadeBDMusicas 00:00:00 5 rows