

## Prova pratica 01- BD

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### Questão 1-

The screenshot shows a database management tool interface. The main window displays a SQL query and its results. The query is as follows:

```
1 SELECT
2   i.InvoiceId,
3   i.InvoiceDate,
4   il.InvoiceLineId,
5   il.UnitPrice,
6   (SELECT SUM(il2.UnitPrice)
7    FROM Invoice_Items il2
8    WHERE il2.InvoiceId = i.InvoiceId) AS total_da_fatura
9 FROM
10  Invoices i
11 JOIN
12  Invoice_Items il ON i.InvoiceId = il.InvoiceId;
```

The results table shows 11 rows of data:

	InvoiceId	InvoiceDate	InvoiceLineId	UnitPrice	total_da_fatura
1	1	2009-01-01 00:00:00	1	0.99	1.98
2	1	2009-01-01 00:00:00	2	0.99	1.98
3	2	2009-01-02 00:00:00	3	0.99	3.96
4	2	2009-01-02 00:00:00	4	0.99	3.96
5	2	2009-01-02 00:00:00	5	0.99	3.96
6	2	2009-01-02 00:00:00	6	0.99	3.96
7	3	2009-01-03 00:00:00	7	0.99	5.94
8	3	2009-01-03 00:00:00	8	0.99	5.94
9	3	2009-01-03 00:00:00	9	0.99	5.94
10	3	2009-01-03 00:00:00	10	0.99	5.94
11	3	2009-01-03 00:00:00	11	0.99	5.94

The execution finished without errors. Result: 2240 rows returned in 68ms.

At line 1:  
SELECT  
i.InvoiceId,  
i.InvoiceDate,  
il.InvoiceLineId,  
il.UnitPrice,  
(SELECT SUM(il2.UnitPrice)  
FROM Invoice\_Items il2  
WHERE il2.InvoiceId = i.InvoiceId) AS total\_da\_fatura  
FROM  
Invoices i  
JOIN  
Invoice\_Items il ON i.InvoiceId = il.InvoiceId;

### Questão 2-

The screenshot shows a database management tool interface. The main window displays a SQL query and its results. The query is as follows:

```
1 SELECT
2   a.Title AS AlbumTitle,
3   a.ArtistId,
4   t.TrackId,
5   t.Name AS TrackName,
6   t.AlbumId,
7   ar.Name AS ArtistName
8 FROM
9   tracks t
10 JOIN
11   albums a ON t.AlbumId = a.AlbumId
12 JOIN
13   artists ar ON a.ArtistId = ar.ArtistId;
```

The results table shows 10 rows of data:

	AlbumTitle	ArtistId	TrackId	TrackName	AlbumId	Artist
1	For Those About To Rock We Salute You	1	1	For Those About To Rock (We Salute You)	1	AC/DC
2	For Those About To Rock We Salute You	1	6	Put The Finger On You	1	AC/DC
3	For Those About To Rock We Salute You	1	7	Let's Get It Up	1	AC/DC
4	For Those About To Rock We Salute You	1	8	Inject The Venom	1	AC/DC
5	For Those About To Rock We Salute You	1	9	Snowballed	1	AC/DC
6	For Those About To Rock We Salute You	1	10	Evil Walks	1	AC/DC
7	For Those About To Rock We Salute You	1	11	C.O.D.	1	AC/DC
8	For Those About To Rock We Salute You	1	12	Breaking The Rules	1	AC/DC
9	For Those About To Rock We Salute You	1	13	Night Of The Long Knives	1	AC/DC
10	For Those About To Rock We Salute You	1	14	Spellbound	1	AC/DC

The execution finished without errors. Result: 3503 rows returned in 13ms.

At line 1:  
SELECT  
a.Title AS AlbumTitle,  
a.ArtistId,  
t.TrackId,  
t.Name AS TrackName,  
t.AlbumId,  
ar.Name AS ArtistName  
FROM  
tracks t  
JOIN  
albums a ON t.AlbumId = a.AlbumId  
JOIN  
artists ar ON a.ArtistId = ar.ArtistId;

Questão 3-

New DatabaseOpen DatabaseWrite ChangesRevert ChangesUndoOpen ProjectSave ProjectAttach DatabaseClose Database

Database StructureBrowse DataEdit PragmasExecute SQL

S...

```
1 SELECT
2   t.TrackId,
3   t.Name AS TrackName,
4   t.Milliseconds,
5   m.Name AS MediaType,
6   g.Name AS Genre
7 FROM
8   tracks t
9 JOIN
10    media_types m ON t.MediaTypeId = m.MediaTypeId
11 JOIN
12    genres g ON t.GenreId = g.GenreId
13 WHERE
14    t.Milliseconds BETWEEN 100000 AND 400000;
15
```

	TrackId	TrackName	Milliseconds	MediaType	Genre
1	1	For Those About To Rock (We Salute You)	343719	MPEG audio file	Rock
2	2	Balls to the Wall	342864	Protected AAC audio file	Rock
3	3	Fast As a Shark	230919	Protected AAC audio file	Rock
4	4	Restless and Wild	882061	Protected AAC audio file	Rock
5	5	Princesses of the Dawn	376418	Protected AAC audio file	Rock
6	6	Put The Finger On You	405664	MPEG audio file	Rock
7	7	Let's Get It Up	233966	MPEG audio file	Rock
8	8	Inject The Venom	210834	MPEG audio file	Rock
9	9	Snowballed	203102	MPEG audio file	Rock

Execution finished without errors.

Result: 8970 rows returned in 69ms

At line 11:

```
SELECT
  t.TrackId,
  t.Name AS TrackName,
  t.Milliseconds,
  m.Name AS MediaType,
  g.Name AS Genre
FROM
  tracks t
JOIN
  media_types m ON t.MediaTypeId = m.MediaTypeId
JOIN
  genres g ON t.GenreId = g.GenreId
WHERE
  t.Milliseconds BETWEEN 100000 AND 400000;
```

Edit Database Cell

Mode: Text

NULL

No cell active.  
Type: NULL; Size: 0 bytes

Apply

Remote

Identity Select an identity to connect

Upload

DBHub.ioLocalCurrent Database

Name	Last modified	Size	Commit
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SQL LogPlotDB SchemaRemote