PROVA PRÁTICA BD 25.1
Pedro Vinicius Ernesto Barbosa

1)

SQL 1

```
SELECT
    invoices.InvoiceId, invoices.InvoiceDate, invoice_items.InvoiceId, invoice_items.UnitPrice, sum(UnitPrice) as total_da_fatura
FROM
    invoices
INNER JOIN invoice_items on invoice_items.InvoiceId = invoices.InvoiceId
GROUP BY
    invoice_items.InvoiceId
```

	InvoiceId	InvoiceDate	InvoiceId	UnitPrice	total_da_fatura
1	1	2009-01-01 00:00:00	1	0.99	1.98
2	2	2009-01-02 00:00:00	2	0.99	3.96
3	3	2009-01-03 00:00:00	3	0.99	5.94
4	4	2009-01-06 00:00:00	4	0.99	8.91
5	5	2009-01-11 00:00:00	5	0.99	13.86

Está agrupado por invoice_items.invoiceid pois na tabela invoice_items os items tem um id unico pra cada que seria o InvoiceLineId mas também tem o InvoiceId onde os elementos podem ter o mesmo Id.

```
SELECT
    invoices.InvoiceId, invoices.InvoiceDate, invoice_items.InvoiceId,
invoice_items.UnitPrice, sum(UnitPrice) as total_da_fatura
FROM
    invoices
INNER JOIN invoice_items on invoice_items.InvoiceId = invoices.InvoiceId
GROUP BY
        invoice_items.InvoiceId
```

InvoiceLineId	InvoiceId	TrackId	UnitPrice	Quantity
Filtro	Filtro	Filtro	Filtro	Filtro
1	1	2	0.99	1
2	1	4	0.99	1
3	2	6	0.99	1
4	2	8	0.99	1
5	2	10	0.99	1
6	2	12	0.99	1
7	3	16	0.99	1
8	3	20	0.99	1
9	3	24	0.99	1
10	3	28	0.99	1
11	3	32	0.99	1
12	3	36	0.99	1
13	4	42	0.99	1
14	4	48	0.99	1
15	4	54	0.99	1
16	4	60	0.99	1

Então os itens que tem o mesmo InvoiceId estão juntos e o total_da_fatura seria como o UnitPrice * quantidade de elementos que tem a mesma InvoiceId, a soma de todos os UnitPrice que pertencem a mesma InvoiceId.

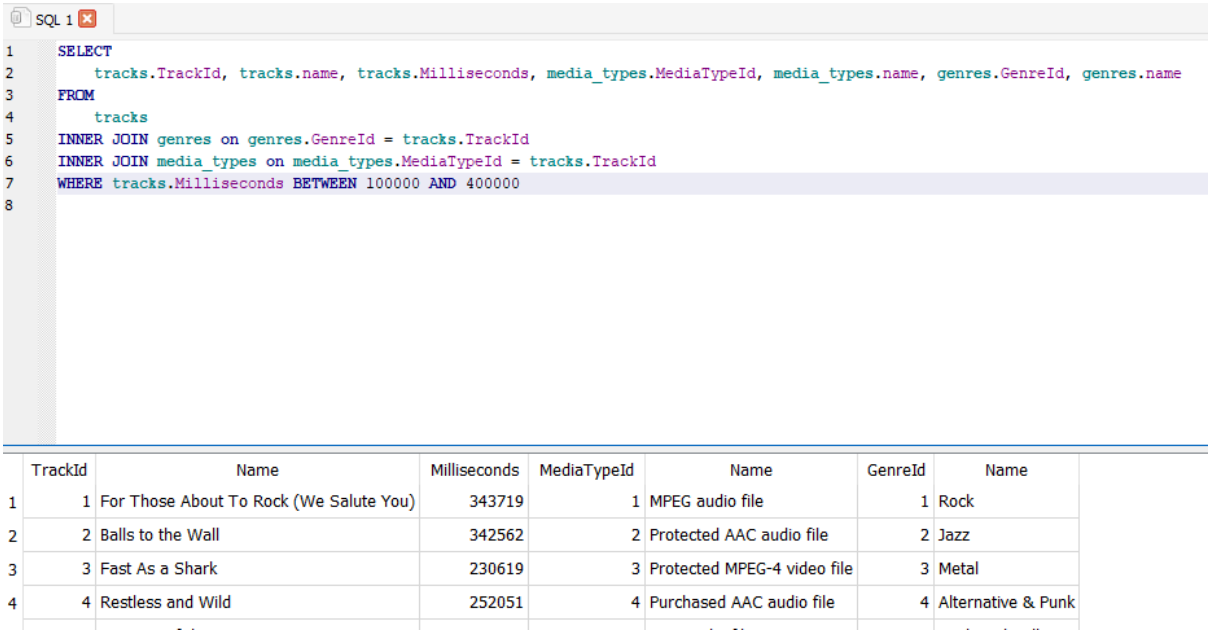
2)

```
SELECT
    trackid,
    tracks.name AS Name,
    tracks.AlbumId As AlbumId,
    albums.title AS Title,
    albums.ArtistId AS ArtistId,
    artists.name AS Name
FROM
    tracks
    INNER JOIN albums ON albums.albumid = tracks.albumid
    INNER JOIN artists ON artists.artistid = albums.artistid;
```

TrackId	Name	AlbumId	Title	ArtistId	Name
1	For Those About To Rock (We Salute You)	1	For Those About To Rock We Salute You	1	AC/DC
6	Put The Finger On You	1	For Those About To Rock We Salute You	1	AC/DC
7	Let's Get It Up	1	For Those About To Rock We Salute You	1	AC/DC
8	Inject The Venom	1	For Those About To Rock We Salute You	1	AC/DC
9	Snowballed	1	For Those About To Rock We Salute You	1	AC/DC
10	Evil Walks	1	For Those About To Rock We Salute You	1	AC/DC
11	C.O.D.	1	For Those About To Rock We Salute You	1	AC/DC
12	Breaking The Rules	1	For Those About To Rock We Salute You	1	AC/DC

```
SELECT
   trackid,
   tracks.name AS Name,
        tracks.AlbumId As AlbumId,
   albums.title AS Title,
        albums.ArtistId AS ArtistId,
   artists.name AS Name
FROM
   tracks
   INNER JOIN albums ON albums.albumid = tracks.albumid
   INNER JOIN artists ON artists.artistid = albums.artistid;
```

3)



```
SQL 1
1  SELECT
2      tracks.TrackId, tracks.name, tracks.Milliseconds, media_types.MediaTypeId, media_types.name, genres.GenreId, genres.name
3  FROM
4      tracks
5  INNER JOIN genres on genres.GenreId = tracks.TrackId
6  INNER JOIN media_types on media_types.MediaTypeId = tracks.TrackId
7  WHERE tracks.Milliseconds BETWEEN 100000 AND 400000
8
```

	TrackId	Name	Milliseconds	MediaTypeId	Name	GenreId	Name
1	1	For Those About To Rock (We Salute You)	343719	1	MPEG audio file	1	Rock
2	2	Balls to the Wall	342562	2	Protected AAC audio file	2	Jazz
3	3	Fast As a Shark	230619	3	Protected MPEG-4 video file	3	Metal
4	4	Restless and Wild	252051	4	Purchased AAC audio file	4	Alternative & Punk

```
SELECT
        tracks.TrackId, tracks.name, tracks.Milliseconds, medi_types.MediaTypeId,
media_types.name, genres.GenreId, genres.name
FROM
        tracks
INNER JOIN genres on genres.GenreId = tracks.TrackId
INNER JOIN media_types on media_types.MediaTypeId = tracks.TrackId
WHERE tracks.Milliseconds BETWEEN 100000 AND 400000
```