PROVA DE BANCO DE DADOS

NOME : Miguel Angelo da Silva Costa

1) Listar os seguinte dados das tabelas: invoices (Invoiceid, invoiceDate), invoice_items (Invoiceitemid,
unitprice), total_da_fatura (resultado do agrupamento do somatório de todos os unitprice dos
invoice_items).

SQL 1*

```
FROM
    invoices i
JOIN
    invoice_items ii ON i.InvoiceId = ii.InvoiceId
GROUP BY
    i.InvoiceId, i.InvoiceDate;
```

	InvoiceId	InvoiceDate	total_da_fatura
1	1	2009-01-01 00:00:00	1.98
2	2	2009-01-02 00:00:00	3.96
3	3	2009-01-03 00:00:00	5.94
4	4	2009-01-06 00:00:00	8.91
5	5	2009-01-11 00:00:00	13.86
6	6	2009-01-19 00:00:00	0.99
7	7	2009-02-01 00:00:00	1.98
8	8	2009-02-01 00:00:00	1.98
9	9	2009-02-02 00:00:00	3.96
10	10	2009-02-03 00:00:00	5.94
11	11	2009-02-06 00:00:00	8.91

```
Execução finalizada sem erros.
Resultado: 412 linhas retornadas em 27 ms
Na linha 1:
SELECT
    i.InvoiceId,
    i.InvoiceDate,
    SUM(ii.UnitPrice) AS total_da_fatura
FROM
    invoices i
JOIN
    invoice_items ii ON i.InvoiceId = ii.InvoiceId
GROUP BY
    i.InvoiceId, i.InvoiceDate;
```

2) Listar os seguinte dados das tabelas: albums (Title, Artistid), tracks (Trackid, Name, Albumid),
artists(Name). Usar o join fazendo a ligação entre a chave primária e a chave estrangeira.

```sql
SELECT
    t.TrackId,
    t.Name AS TrackName,
    t.AlbumId,
    al.Title AS AlbumTitle,
    al.ArtistId,
    ar.Name AS ArtistName
FROM
```

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

```
Execução finalizada sem erros.
Resultado: 3503 linhas retornadas em 17 ms
Na linha 1:
SELECT
    t.TrackId,
    t.Name AS TrackName,
    t.AlbumId,
    al.Title AS AlbumTitle,
    al.ArtistId,
    ar.Name AS ArtistName
FROM
    tracks t
JOIN
```

3) Listar os seguintes dados das tabelas: tracks(Trackid, Name, Milliseconds), mediatypes (MediaTypeid,
name), genres (GenreId, name). Selecionar as tracks com Milliseconds entre 100000 e 400000.

```sql
    JOIN
        media_types mt ON t.MediaTypeId = mt.MediaTypeId
    JOIN
        genres g ON t.GenreId = g.GenreId
    WHERE
        t.Milliseconds > 2000000;
```

	TrackId	TrackName	Milliseconds	MediaTypeId	MediaTypeName	GenreId	GenreName
1	2819	Battlestar Galactica: The Story So …	2622250	3	Protected MPEG-4 video file	18	Science Fiction
2	2825	A Measure of Salvation	2563938	3	Protected MPEG-4 video file	18	Science Fiction
3	2826	Hero	2713755	3	Protected MPEG-4 video file	18	Science Fiction
4	2827	Unfinished Business	2622038	3	Protected MPEG-4 video file	18	Science Fiction
5	2828	The Passage	2623875	3	Protected MPEG-4 video file	18	Science Fiction
6	2829	The Eye of Jupiter	2618750	3	Protected MPEG-4 video file	18	Science Fiction
7	2830	Rapture	2624541	3	Protected MPEG-4 video file	18	Science Fiction
8	2831	Taking a Break from All Your Worries	2624207	3	Protected MPEG-4 video file	18	Science Fiction
9	2832	The Woman King	2626376	3	Protected MPEG-4 video file	18	Science Fiction
10	2833	A Day In the Life	2620245	3	Protected MPEG-4 video file	18	Science Fiction
11	2834	Dirty Hands	2627961	3	Protected MPEG-4 video file	18	Science Fiction

```
SELECT
    t.TrackId,
    t.Name AS TrackName,
    t.Milliseconds,
    mt.MediaTypeId,
    mt.Name AS MediaTypeName,
    g.GenreId,
    g.Name AS GenreName
FROM
    tracks t
JOIN
    media_types mt ON t.MediaTypeId = mt.MediaTypeId
JOIN
```