

The screenshot shows a PostgreSQL IDE interface. On the left, the 'Object Explorer' pane displays a tree of database objects, with the 'invoice' table selected under the 'Tables (13)' category. The main query editor displays the following SQL query:

```
1 SELECT SUM(i.total) AS TotalAmount
2 FROM invoice i
3 WHERE i.customer_id IN (
4     SELECT c.customer_id
5     FROM customer c
6     WHERE c.country = 'USA'
7 )
8 AND EXTRACT(YEAR FROM i.invoice_date) = 2009;
9
```

Below the query editor, the 'Data Output' pane shows the results of the query. It displays a single row with the column 'totalamount' and the value '103.95'.

totalamount
103.95

The status bar at the bottom indicates 'Total rows: 1' and 'Query complete 00:00:00.057'.

Bu sorguda, invoice tablosunun alias'ı i olarak belirlenmiştir.

customer tablosundaki customer_id'leri alt sorgu (IN komutu) kullanılarak USA ülkesindeki müşterilere ait olanlar ile filtrelenmiştir.

Toplam fatura tutarını hesaplamak için SUM(i.total) kullanılır.

EXTRACT(YEAR FROM i.invoice_date) fonksiyonu, timestamp without time zone türündeki veriden yalnızca yılı çıkartır. Böylece, 2009 yılına ait faturalar filtrelenir.

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Query Query History

```
1 SELECT track.track_id, track.name, track.album_id, playlist.name AS playlist_name
2 FROM track
3 JOIN playlisttrack ON track.track_id = playlisttrack.track_id
4 JOIN playlist ON playlisttrack.playlist_id = playlist.playlist_id;
5
6
```

Data Output Messages Notifications

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	track_id integer	name character varying (200)	album_id integer	playlist_name character varying (120)
1	3402	Band Members Discuss Tracks from "Revelations"	271	Music
2	3389	Revelations	271	Music
3	3390	One and the Same	271	Music
4	3391	Sound of a Gun	271	Music
5	3392	Until We Fall	271	Music
6	3393	Original Fire	271	Music
7	3394	Broken city	271	Music
8	3395	Somedays	271	Music
9	3396	Shape of Things to Come	271	Music
10	3397	Jewel of the Summertime	271	Music
11	3398	Wide Awake	271	Music
12	3399	Nothing Left to Say But Goodbye	271	Music

Total rows: 8715 Query complete 00:00:00.081 CRLF Ln 5, Col 1

track tablosundaki parça bilgileri alınıyor.

playlisttrack tablosu ile parçaların hangi playlist'e ait olduğunu bulmak için JOIN işlemi yapılıyor.

Son olarak, playlist tablosu ile parça bilgileri ve playlist ismi birleştiriliyor.

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Query Query History

```
1 SELECT track.track_id, track.name AS track_name, artist.name AS artist_name, track.milliseconds
2 FROM track
3 JOIN album ON track.album_id = album.album_id
4 JOIN artist ON album.artist_id = artist.artist_id
5 WHERE album.title = 'Let There Be Rock'
6 ORDER BY track.milliseconds DESC;
7
8
9
```

Data Output Messages Notifications

Showing rows: 1 to 8 Page No: 1 of 1

	track_id integer	track_name character varying (200)	artist_name character varying (120)	milliseconds integer
1	20	Overdose	AC/DC	369319
2	17	Let There Be Rock	AC/DC	366654
3	15	Go Down	AC/DC	331180
4	19	Problem Child	AC/DC	325041
5	22	Whole Lotta Rosie	AC/DC	323761
6	18	Bad Boy Boogie	AC/DC	267728
7	21	Hell Ain't A Bad Place To Be	AC/DC	254380
8	16	Dog Eat Dog	AC/DC	215196

Total rows: 8 Query complete 00:00:00.044 CRLF Ln 7, Col 1

track tablosundaki parçalar alınıyor.

album tablosu ile parçalara ait albüm bilgisi, artist tablosu ile de sanatçı bilgisi ekleniyor.

album.title = 'Let There Be Rock' filtresi ile sadece "Let There Be Rock" albümüne ait parçalar seçiliyor.

Sonuçlar ORDER BY track.milliseconds DESC ile parça süresine göre büyükten küçüğe sıralanıyor.