



SQL Project On Music Store Data

REPRESENTED BY:-

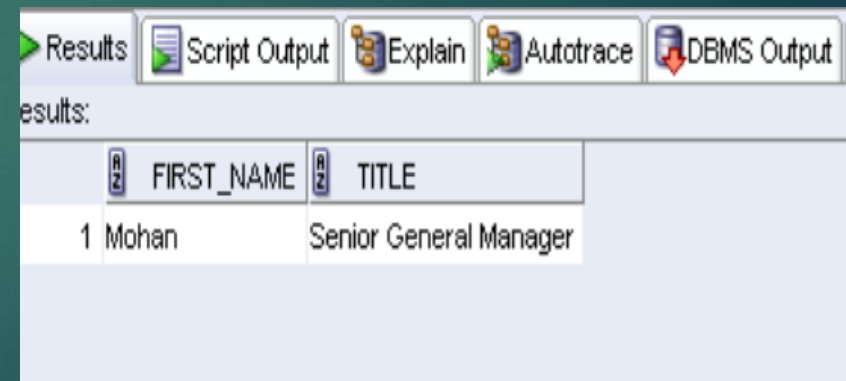
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Introduction

- ▶ In this project , I analyze music store data and load this data into SQL tables Using SQL loader.
- ▶ The Music Store Data Project is designed to explore, analyze, and derive insights from a relational database containing data about a digital music store.
- ▶ The music store database typically includes multiple interrelated tables such as customers, artists, albums, tracks, invoices, genres, and employees. By writing and executing SQL queries, this project aims to answer key business questions such as customer purchasing behavior, sales trends by genre or artist, employee performance, and geographic distribution of sales.
- ▶ It serves as a practical application of database concepts such as joins, subqueries, filtering, grouping, and sorting to gain meaningful insights that can support data-driven decision-making in the music retail industry.

Senior most employee based on Job title

```
select first_name,title from employee  
where title like 'Senior%';
```

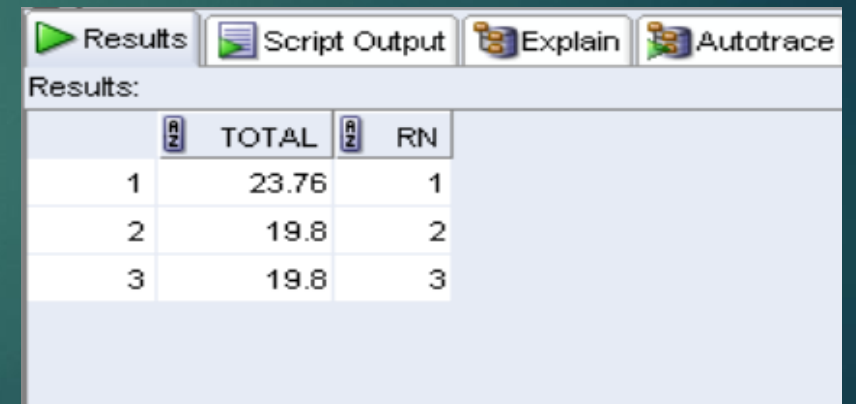


The screenshot shows a database query results window with a toolbar at the top containing icons for Results, Script Output, Explain, Autotrace, and DBMS Output. Below the toolbar, the text "results:" is displayed. A table with two columns, FIRST_NAME and TITLE, is shown. The first row of data contains the values "1 Mohan" and "Senior General Manager".



results:	
FIRST_NAME	TITLE
1 Mohan	Senior General Manager

Top 3 Values of Total Invoice

```
select * from(select total,row_number()over  
(order by total desc)as RN from invoice)  
where RN<=3;
```

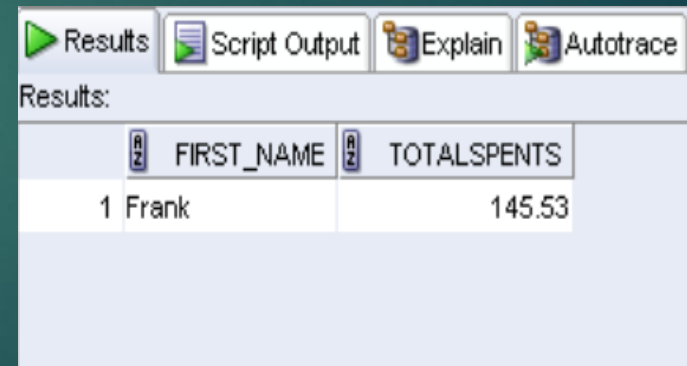


The screenshot shows a database query results window with four tabs: Results, Script Output, Explain, and Autotrace. The Results tab is active, displaying a table with three columns: an index column, TOTAL, and RN. The table contains three rows of data, representing the top 3 values of the Total Invoice.

	 TOTAL	 RN
1	23.76	1
2	19.8	2
3	19.8	3

Customer name who Spent Most money in Music Store

```
select first_name, TotalSpents from (select c.first_name, sum(i.total)
as TotalSpents, Rank() over (order by sum(i.total) desc)
as RNK from customer c inner join invoice i on c.customer_id=i.customer_id
group by c.first_name) where RNK=1;
```

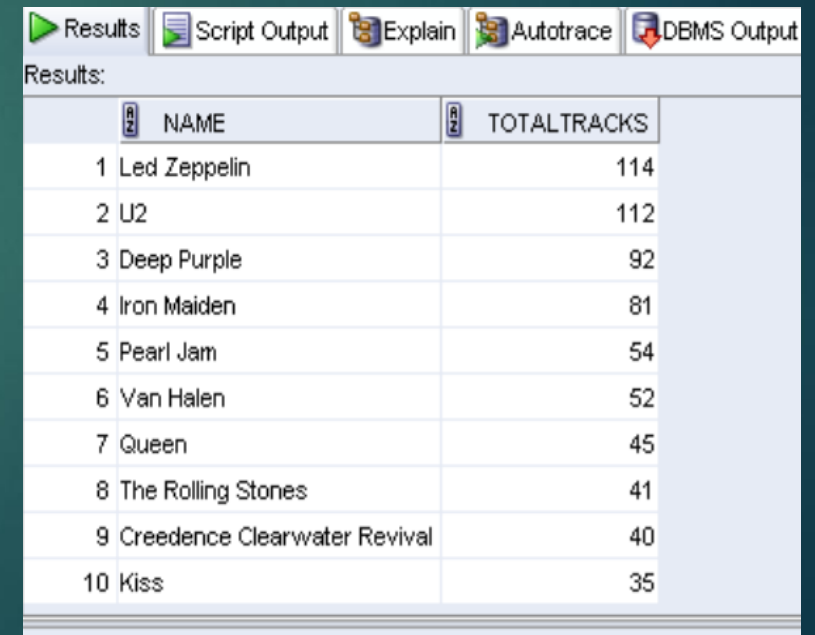


Results: Script Output Explain Autotrace

	FIRST_NAME	TOTALSPENTS
1	Frank	145.53

Top 10 Artists who written the most rock music in our dataset

```
select name, TotalTracks from (select a.name, count(t.track_id)
as TotalTracks, Rank() over (order by count(t.track_id) desc)
as RNK from artist a inner join album al on
a.artist_id=al.artist_id inner join track t
on al.album_id=t.album_id inner join
genre g on t.genre_id=g.genre_id and g.name like 'Rock'
group by a.name) where RNK <= 10;
```



The screenshot shows a database query results window with tabs for Results, Script Output, Explain, Autotrace, and DBMS Output. The Results tab is active, displaying a table with 10 rows of data. The table has two columns: NAME and TOTALTRACKS. The data is as follows:

	NAME	TOTALTRACKS
1	Led Zeppelin	114
2	U2	112
3	Deep Purple	92
4	Iron Maiden	81
5	Pearl Jam	54
6	Van Halen	52
7	Queen	45
8	The Rolling Stones	41
9	Creedence Clearwater Revival	40
10	Kiss	35

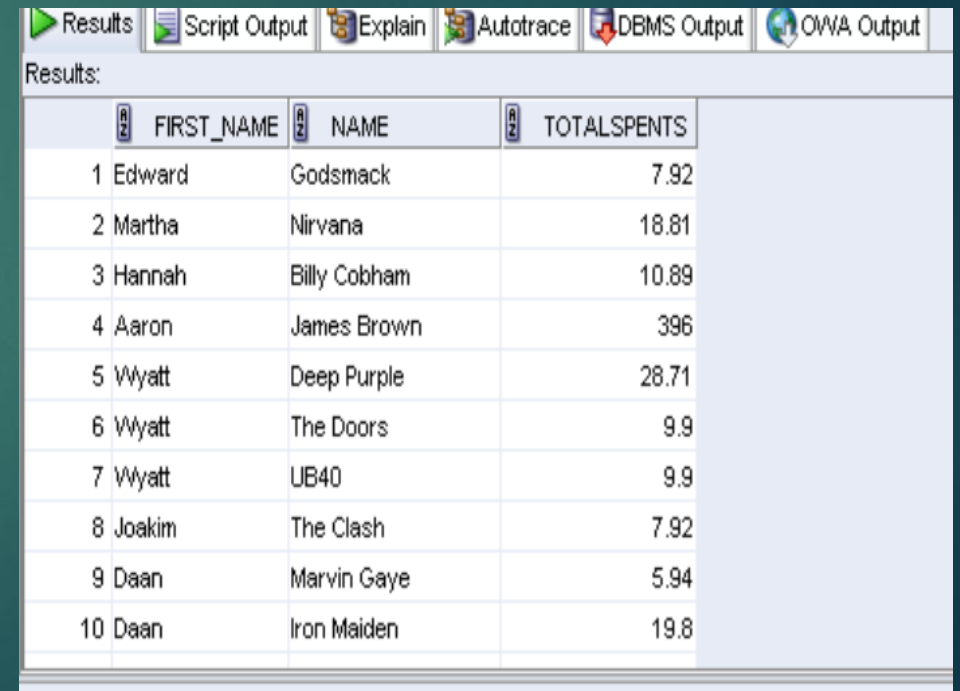
Tracks which length is longer than the average Track length

```
select name, sum(milliseconds), avg(milliseconds)
from track group by name
having sum(milliseconds) > avg(milliseconds)
order by sum(milliseconds) desc;
```

[illegible]

Total amount spent by each customer on Artists

```
select c.first_name,a.name,sum(i.total)as TotalSpents
from customer c,invoice i,invoice_line il,track t,album al,
artist a where c.customer_id=i.customer_id and
i.invoice_id=il.invoice_id and il.track_id=t.track_id
and t.album_id=al.album_id and al.artist_id=a.artist_id
group by c.first_name,a.name;
```

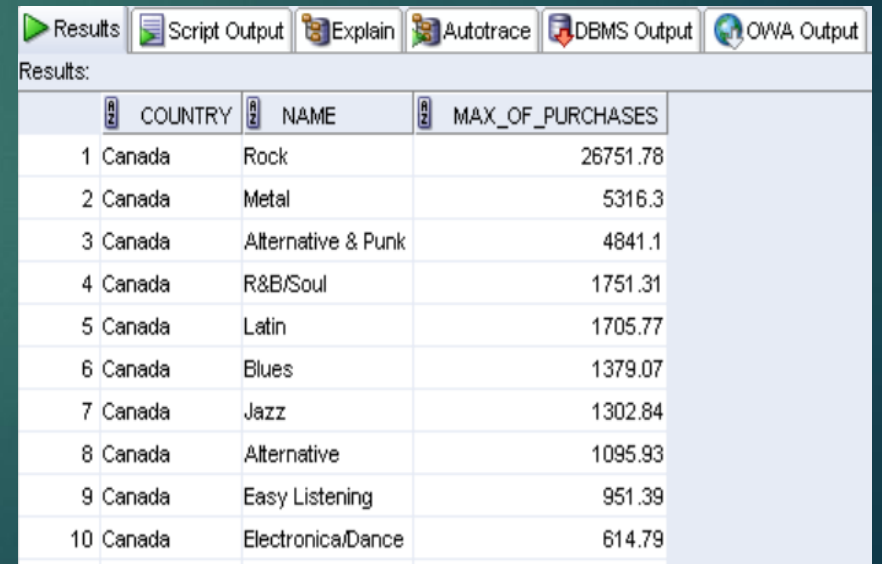


The screenshot shows a database query results window with a toolbar at the top containing icons for Results, Script Output, Explain, Autotrace, DBMS Output, and OWA Output. The 'Results' tab is active, displaying a table with the following data:

	A2	FIRST_NAME	A2	NAME	A2	TOTALSPENTS
1		Edward		Godsmack		7.92
2		Martha		Nirvana		18.81
3		Hannah		Billy Cobham		10.89
4		Aaron		James Brown		396
5		Wyatt		Deep Purple		28.71
6		Wyatt		The Doors		9.9
7		Wyatt		UB40		9.9
8		Joakim		The Clash		7.92
9		Daan		Marvin Gaye		5.94
10		Daan		Iron Maiden		19.8

Country which has Maximum purchases in music Order by popular Genre name

```
select e.country,g.name,sum(i.total)as Max_of_Purchases
from employee e,customer c,invoice i,invoice_line il,track t,
genre g where e.employee_id=c.support_rep_id and
c.customer_id=i.customer_id and i.invoice_id=il.invoice_id
and il.track_id=t.track_id and t.genre_id=g.genre_id
group by e.country,g.name order by sum(i.total)desc;
```

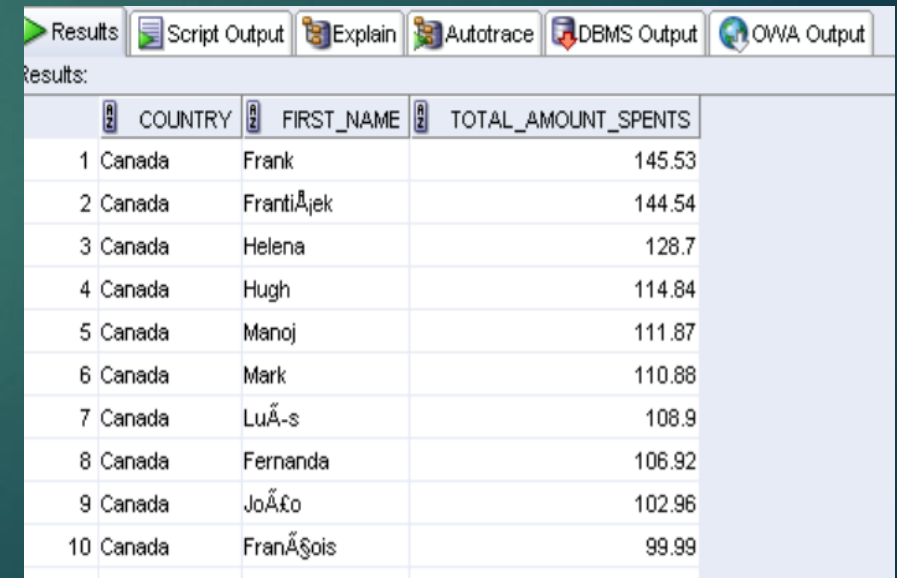


Results:

	COUNTRY	NAME	MAX_OF_PURCHASES
1	Canada	Rock	26751.78
2	Canada	Metal	5316.3
3	Canada	Alternative & Punk	4841.1
4	Canada	R&B/Soul	1751.31
5	Canada	Latin	1705.77
6	Canada	Blues	1379.07
7	Canada	Jazz	1302.84
8	Canada	Alternative	1095.93
9	Canada	Easy Listening	951.39
10	Canada	Electronica/Dance	614.79

Country Wise Maximum Amount Spent On music by each Customer

```
select e.country,c.first_name,sum(i.total)as  
Total_Amount_Spents from employee e,customer c,invoice i  
where e.employee_id=c.support_rep_id and  
c.customer_id=i.customer_id group by  
e.country,c.first_name  
order by sum(i.total)desc;
```



Results: Script Output Explain Autotrace DBMS Output OWA Output

	COUNTRY	FIRST_NAME	TOTAL_AMOUNT_SPENTS
1	Canada	Frank	145.53
2	Canada	František	144.54
3	Canada	Helena	128.7
4	Canada	Hugh	114.84
5	Canada	Manoj	111.87
6	Canada	Mark	110.88
7	Canada	Luís	108.9
8	Canada	Fernanda	106.92
9	Canada	José	102.96
10	Canada	François	99.99

Key Insights

- ▶ Canada is a most popular country for music Sales.
- ▶ Rock band is a most loved genre in music store.
- ▶ Customer has spent most money on artists.
- ▶ Led Zeppelin is written most amount of rock music.
- ▶ Frank is a customer who has spent most amount for buying tracks.