



# **MUSIC PROJECT USING MYSQL**

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# **PROBLEM STATEMENT**

**Sony is one of the well known music company around the world as they have paid subscription system around the global for their music listening from past 2 years because of more competitors in market company is losing their customers. The management wants to improve their performance and to look into trends, they have hired data analyst to give them valuable insights. These insights will help them to empower company and improve decision making and enhance overall performance**

# **PROJECT OVERVIEW**



**This project aims to analyze and derive valuable insights from provided database encompassing of artist, customers, genre, tracks .The objective is to know about loyal customers, cities with most number of invoice and countries with most invoice, most music by an artist and many other important insights.**

# Senior most employee based on job title

## QUERY

```
SELECT
    employee_id, first_name, last_name, levels
FROM
    employee
ORDER BY levels DESC
LIMIT 5;
```

## OUTPUT



result Grid     Filter Rows: <input type="text"/>				
	employee_id	first_name	last_name	levels
	1	Andrew	Adams	L6
	2	Nancy	Edwards	L4
	6	Michael	Mitchell	L3
	7	Robert	King	L2
	8	Laura	Callahan	L2

# Countries with most invoices

## QUERY

```
SELECT
    billing_country, ROUND(SUM(total), 2) AS TOTAL
FROM
    invoice
GROUP BY billing_country
ORDER BY total DESC;
```

## OUTPUT



Result Grid				 Filter Rows:
	billing_country	TOTAL		
▶	USA	1040.49		
	Canada	535.59		
	Brazil	427.68		
	France	389.07		
	Germany	334.62		
	Czech Republic	273.24		
	United Kingdom	245.52		
	Portugal	185.13		
	India	183.15		

# Values of invoice of cities

## QUERY

```
SELECT
    billing_city, ROUND((total), 2)
FROM
    invoice
ORDER BY total DESC
LIMIT 10;
```

## OUTPUT

Result Grid   Filter Rows: <input type="text"/>		
	billing_city	ROUND((total), 2)
▶	Bordeaux	23.76
	Winnipeg	19.8
	Prague	19.8
	Toronto	19.8
	Montréal	19.8
	Orlando	18.81
	Sidney	17.82
	Fort Worth	17.82
	São José dos Campos	17.82
	Dublin	17.82

# Customer with highest invoice

## QUERY

```
SELECT DISTINCT
    customer.first_name,
    customer.last_name,
    ROUND((invoice.total), 2) AS Total_bill
FROM
    customer
    JOIN
    invoice ON invoice.customer_id = customer.customer_id
ORDER BY ROUND((invoice.total), 2) DESC
LIMIT 3;
```

## OUTPUT

Result Grid				Filter Rows:
	first_name	last_name	Total_bill	
▶	Wyatt	Girard	23.76	
	Robert	Brown	19.8	
	Aaron	Mitchell	19.8	



# Customer who spend the most from each country

## QUERY

```
select customer.customer_id, first_name, last_name, billing_country,
Round(sum(total),2) as total_spending,
row_number() over (partition by billing_country
order by sum(total) desc) as RowNo
from invoice
join customer on customer.customer_id= invoice.customer_id
group by 1,2,3,4
order by 4 asc, 5 desc;
```

## OUTPUT

	customer_id	first_name	last_name	billing_country	total_spending	RowNo
▶	56	Diego	Gutiérrez	Argentina	39.6	1
	55	Mark	Taylor	Australia	81.18	1
	7	Astrid	Gruber	Austria	69.3	1
	8	Daan	Peeters	Belgium	60.39	1
	1	Luís	Gonçalves	Brazil	108.9	1
	13	Fernanda	Ramos	Brazil	106.92	2
	12	Roberto	Almeida	Brazil	82.17	3
	11	Alexandre	Rocha	Brazil	69.3	4
	10	Eduardo	Martins	Brazil	60.39	5
	3	François	Tremblay	Canada	99.99	1
	30	Edward	Francis	Canada	91.08	2
	33	Ellie	Sullivan	Canada	75.24	3
	32	Aaron	Mitchell	Canada	70.29	4
	15	Jennifer	Peterson	Canada	66.33	5
	31	Martha	Silk	Canada	62.37	6
	29	Robert	Brown	Canada	40.59	7
	14	Mark	Philips	Canada	29.7	8

# Artists who have written the most rock music QUERY

```
SELECT
    artist.name, track.bytes
FROM
    customer
        INNER JOIN
    invoice ON customer.customer_id = invoice.customer_id
        INNER JOIN
    invoice_line ON invoice.invoice_id = invoice_line.invoice_id
        INNER JOIN
    track ON invoice_line.track_id = track.track_id
        INNER JOIN
    album2 ON track.track_id = album2.album_id
        INNER JOIN
    artist ON album2.artist_id = artist.artist_id;
```

## OUTPUT

Result Grid			Filter Rows:
	name	bytes	
▶	Led Zeppelin	11616195	
	Os Mutantes	5793082	
	Foo Fighters	9405526	
	Guns N' Roses	8041411	
	Frank Sinatra	12033110	
	Black Sabbath	7032162	
	Incognito	4948095	
	Chico Science & Nação Zumbi	10552051	
	Caetano Veloso	8331286	
	Deep Purple	6420530	
	Creedence Clearwater Revival	7302550	
	Deep Purple	11183647	
	Billy Cobham	6706347	
	AC/DC	11170334	
	Alvin & Aardvark	6706347	

# Amount spent by each customer on artists

## QUERY

```
SELECT DISTINCT
    customer.first_name,
    customer.last_name,
    artist.artist_id,
    artist.name,
    invoice.total
FROM
    customer
    INNER JOIN
    invoice ON customer.customer_id = invoice.customer_id
    INNER JOIN
    invoice_line ON invoice.invoice_id = invoice_line.invoice_id
    INNER JOIN
    track ON invoice_line.track_id = track.track_id
    INNER JOIN
    album2 ON track.track_id = album2.album_id
    INNER JOIN
    artist ON album2.artist_id = artist.artist_id
ORDER BY total DESC;
```

## OUTPUT

Result Grid		 Filter Rows:	<input type="text"/>	Export: 	Wrap Cell Cor
	first_name	last_name	artist_id	name	total
	Jennifer	Peterson	20	Cláudio Zoli	14.85
	Jennifer	Peterson	23	Frank Zappa & Captain Beeh...	14.85
	Mark	Taylor	50	Metallica	14.85
	Jennifer	Peterson	24	Marcos Valle	14.85
	Mark	Taylor	23	Frank Zappa & Captain Beeh...	14.85
	Mark	Taylor	51	Queen	14.85
	Jennifer	Peterson	22	Led Zeppelin	14.85
	Jennifer	Peterson	6	Antônio Carlos Jobim	14.85
	Mark	Taylor	22	Led Zeppelin	14.85
	Mark	Taylor	24	Marcos Valle	14.85
	Mark	Taylor	52	Kiss	14.85
	Mark	Taylor	20	Cláudio Zoli	14.85
	Fernanda	Ramos	58	Deep Purple	13.86
	Leonie	Kähler	27	Gilberto Gil	13.86
	Fernanda	Ramos	80	Djavan	13.86
	Fernanda	Ramos	82	Faith No More	13.86
	Leonie	Kähler	88	Guns N' Roses	13.86

# CONCLUSION

**Senior most employee based on job title is Andrew Adams**

**Countries with most invoices are:-**

**1.)U.S.A**

**2.)Canada**

**3.)Brazil**

**Top 3 values in invoice of cities:-**

**1.)Bordeaux**

**2.)Winnipeg**

**2.)Prague**

**Customer with highest invoice is Wyatt Girard**

**Customer who spend the most from  
each each country**

**Artists who have written the most  
rock music is Led Zeppelin**

**Amount spent by each customer on  
artists**



**THANK YOU**