

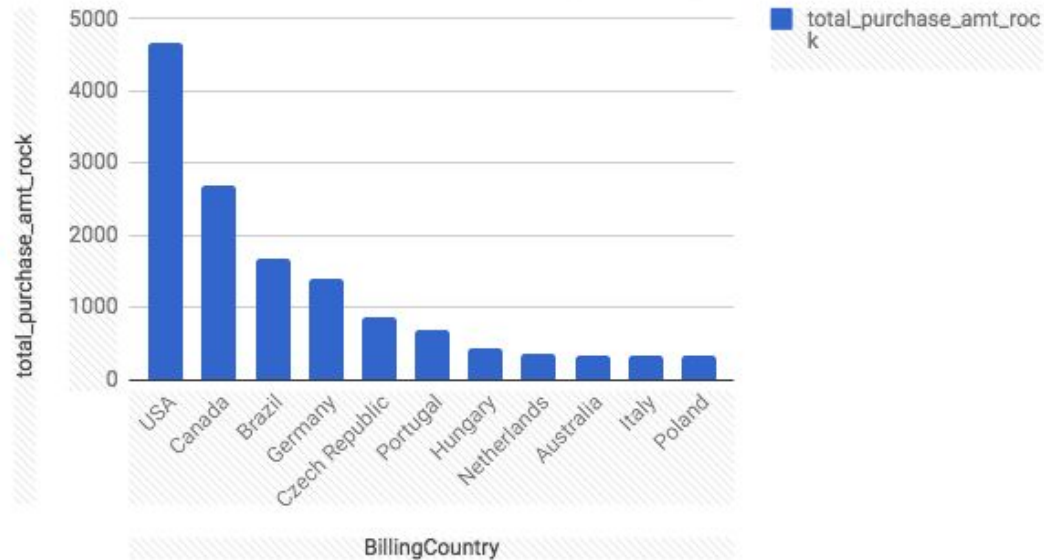
SQL PROJECT

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1.Which country has spend more on ROCK music?

```
select i.billingcountry,sum(i.total) total_amt_rock from Invoice i join InvoiceLine  
v on i.invoiceld=v.invoiceld join track t on t.trackId=v.trackId join Genre g on  
g.genreId=t.genreId group by 1 having(g.name='Rock') order by 2 desc;
```

total_purchase_amt_rock vs. BillingCountry

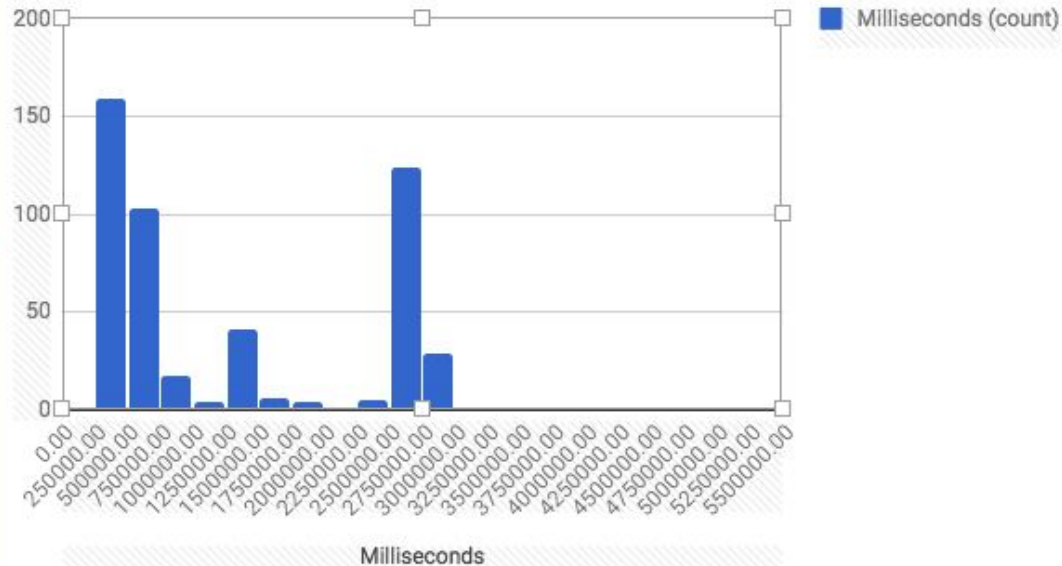


We can see that USA has more rock music and then Canada, no other country has spent close to USA.

2.Return all the track names that have a song length longer than the average song length.?

```
with t1 as(select avg(milliseconds) avg_time from track)
select t.name,t(milliseconds) from track t where t(milliseconds) >(select avg_time from t1) order by 2 desc;
```

Song length (avg-393599.212103911ms)

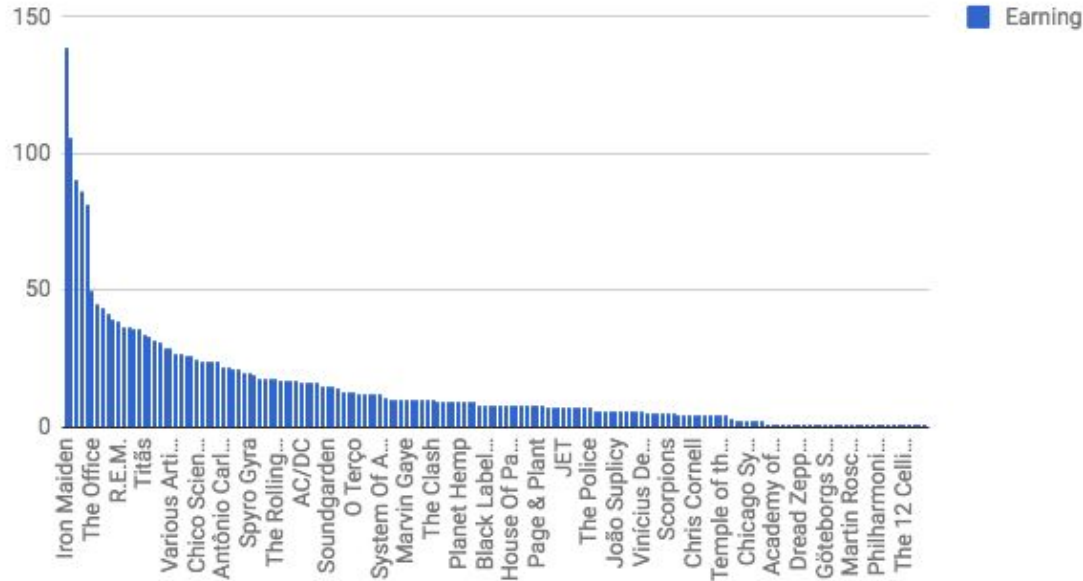


We can see from the graph ,there are 159 song in between 250000-500000.00 ms and there are 124 songs in between 2500000.00-3000000.00 and so on.

3. Which artist has earned the most according to the InvoiceLines?

```
select a.name ,sum(l.unitPrice*l.quantity) from Artist a join Album al on a.artistId=al.artistId join track t on  
t.albumId=al.albumId join InvoiceLine l on l.trackId=t.trackId group by 1 order by 2 desc;
```

Artist Earning

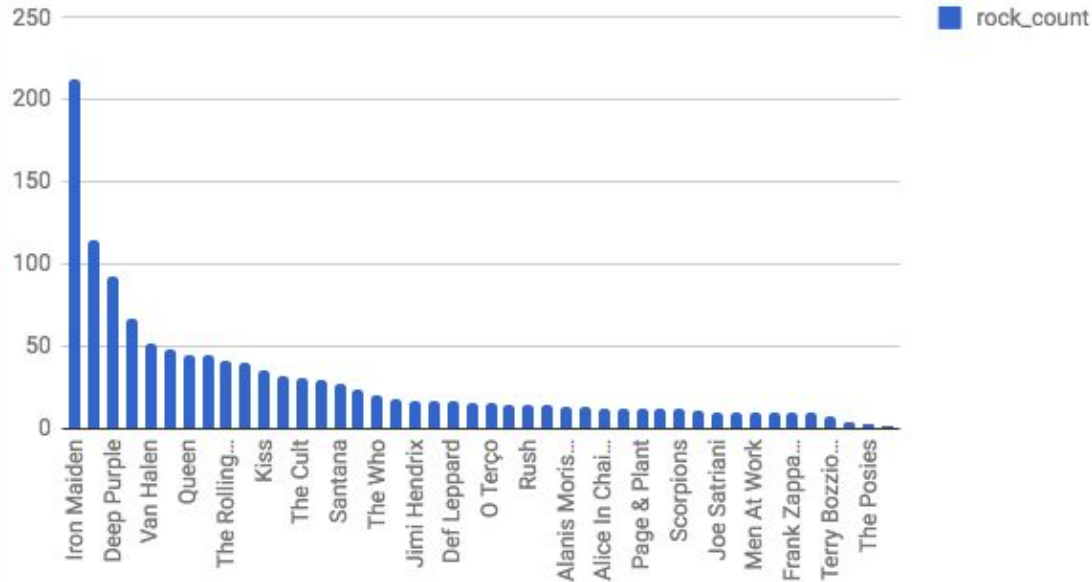


We can see from the graph Iron maiden has highest earning and second is U2 and so on. There is no artist which is close to Iron maiden in respect of earning.

4.who have written the most rock music?

```
select a.ArtistId,a.name,count(*) rock_count from Artist a join Album al on  
a.artistId=al.artistId join track t on al.albumId=t.albumId join Genre g on  
t.genreId=g.genreId group by 1,2 having(g.name)='Rock' order by 3 desc;
```


Artist vs Number of rock music played



We can see from the graph Iron maiden has played most number of rock music and 2nd is Led zeppelin and third is Deep Purple .No one has played ROCK music even close to Iron Maiden