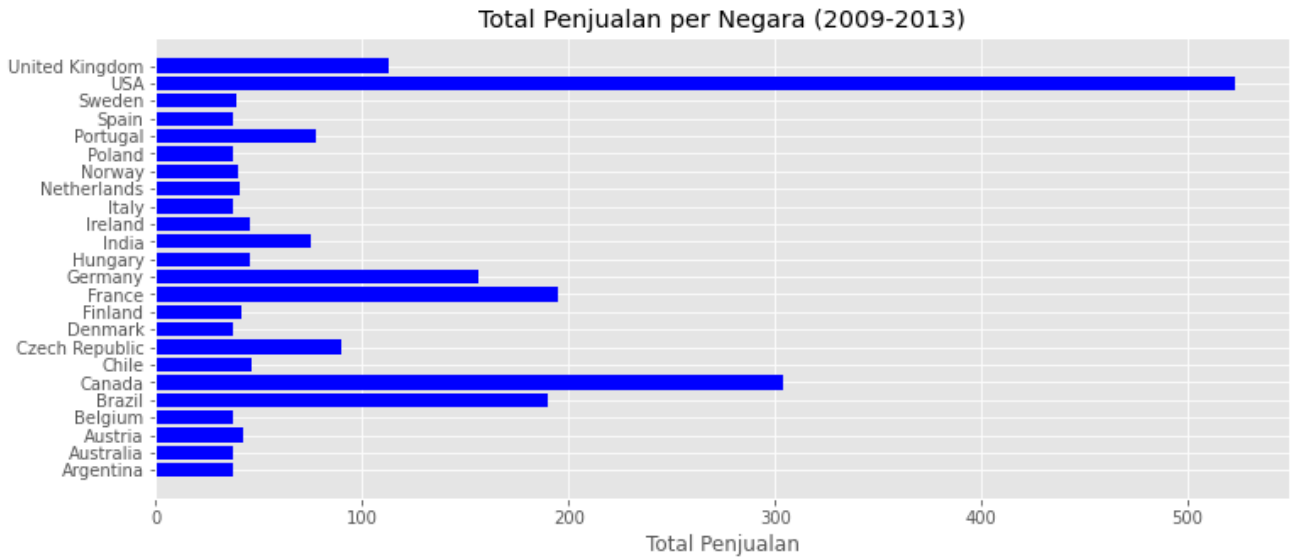
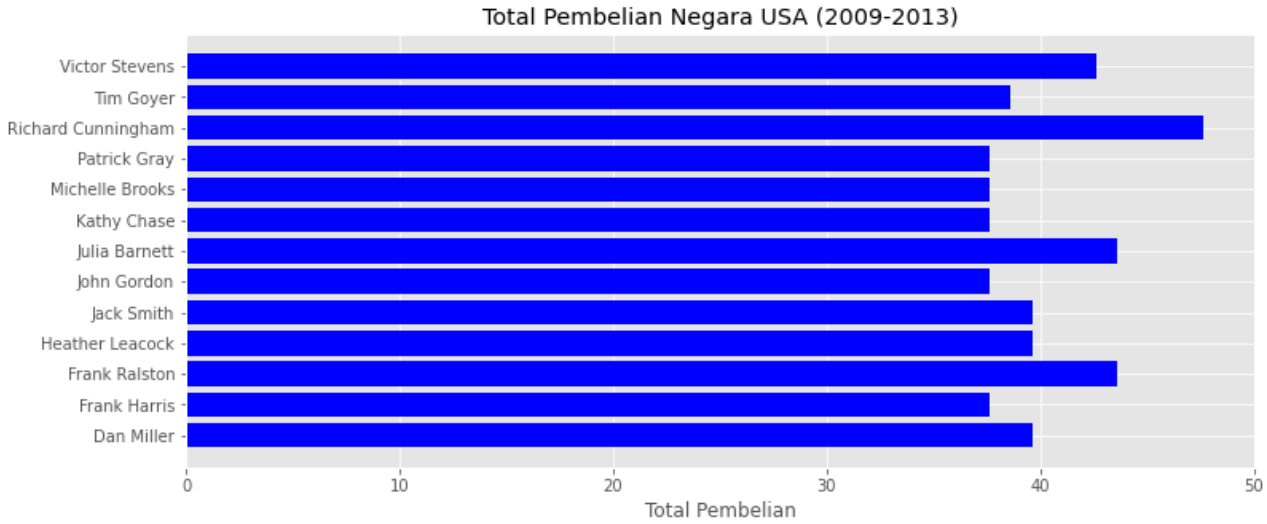
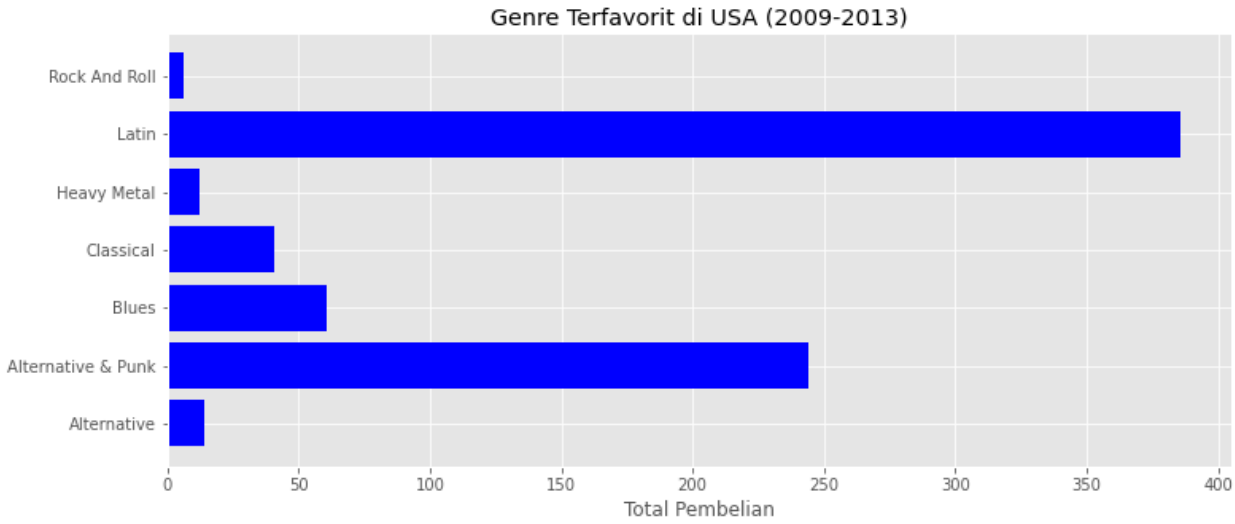
# ANALISIS




Gambar 1. Grafik diagram total penjualan per negara tahun 2009-2013




Gambar 2. Grafik diagram total pembelian negara USA 2009-2013




Gambar 3. Grafik diagram genre terfavorit di USA tahun 2009-2013

Berdasarkan Gambar (1), total penjualan dengan nilai yang tertinggi diduduki oleh USA (523.06), Canada (303.96), dan France (195.10). Berdasarkan Gambar (2), total pembelian tertinggi di USA ditempati oleh customer bernama Richard Cunningham dengan nilai 47.62. Berdasarkan Gambar (3), genre terfavorit di USA adalah Latin (386), dan Alternative & Punk (244).

# SYNTAX

**Editor: jupyter notebook**

```
import sqlite3
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
%matplotlib inline
matplotlib.style.use('ggplot')

conn = sqlite3.connect(r'C:/sqlite/chinook.db')

#Gambar 1
query1 = '"select BillingCountry as "Negara", sum(Total) as "Total Penjualan"
from invoices
group by 1
order by 1 asc'"
df1 = pd.read_sql(query1, conn)
```

```
plt.figure(figsize = (12,5))
plt.barh(df1['Negara'], df1['Total Penjualan'], color='b')
plt.xlabel('Total Penjualan')
plt.title('Total Penjualan per Negara (2009-2013)')

#Gambar 2
query2 = '''select c.FirstName || ' ' || c.LastName as "Full Name", i.CustomerId,
count(i.CustomerID) as "Jumlah Transaksi", i.BillingCountry, sum(i.Total) as "Total Pembelian"
from invoices i
inner join customers c on i.CustomerId = c.CustomerId
group by 1
having i.BillingCountry = "USA"
order by 1 asc'''
df2 = pd.read_sql(query2, conn)

plt.figure(figsize = (12,5))
plt.barh(df2['Full Name'], df2['Total Pembelian'], color='b')
plt.xlabel('Total Pembelian')
plt.title('Total Pembelian Negara USA (2009-2013)')

#Gambar 3
query3 = '''select g.Name as Genre, count(g.Name) as "Total Genre", i.BillingCountry
from genres g
inner join tracks t on g.GenreId = t.GenreId
inner join invoice_items it on t.TrackId = it.TrackId
inner join invoices i on it.InvoiceId = i.invoiceId
group by 1
having i.BillingCountry = "USA"
order by 1 asc'''
df3 = pd.read_sql(query3, conn)

plt.figure(figsize = (12,5))
plt.barh(df3['Genre'], df3['Total Genre'], color='b')
plt.xlabel('Total Pembelian')
plt.title('Genre Terfavorit di USA (2009-2013)')
```