Inconvenient Convenience Store

Milestone: APPLICATION

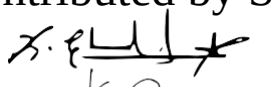
Group 21
Chandra Kiran Bestha
Kusuma Nara

617-238-4749

857-395-5608

Mail

bestha.c@northeastern.edu
nara.k@northeastern.edu

Percentage of Effort Contributed by Student1: 50%
Percentage of Effort Contributed by Student2: 50%
Signature of Student1: 
SignatureofStudent2: 
Submission Date: 11-26-2022

1) **Which month has got a greater number of orders?**

Python Code

query2.py - C:\Users\Chandu\Desktop\query2.py (3.10.7)

File Edit Format Run Options Window Help

```
import mysql.connector

connection = mysql.connector.connect(host='localhost',user='root',password='root',database='icstore')


connection.is_connected()
db_Info = connection.get_server_info()

print("Connected",db_Info)
cursor = connection.cursor()
cursor.execute("select database();")
record = cursor.fetchone()
print('connected', record)

sql_select_query1 = "select monthname(dateofpurchase) as MAX_MONTH , count(*) AS MAX_ORDERS from orders group by  monthname(dateofpurchase) order by count(*) desc limit 1;"
cursor = connection.cursor()
cursor.execute(sql_select_query1)
records = cursor.fetchall()
print("Month which has got the highest number of orders")
for row in records:
       print(row)
```

Ans) August has a greater number of orders of 30.

```
================== RESTART: C:\Users\Chandu\Desktop\query2.py ==================
Connected 8.0.30
connected ('icstore',)
Month which has got the highest number of orders
('August', 30)
```

2) **What is the percentage of each category that is sold?**

query1.py - C:\Users\Chandu\Desktop\query1.py (3.10.7)

File Edit Format Run Options Window Help

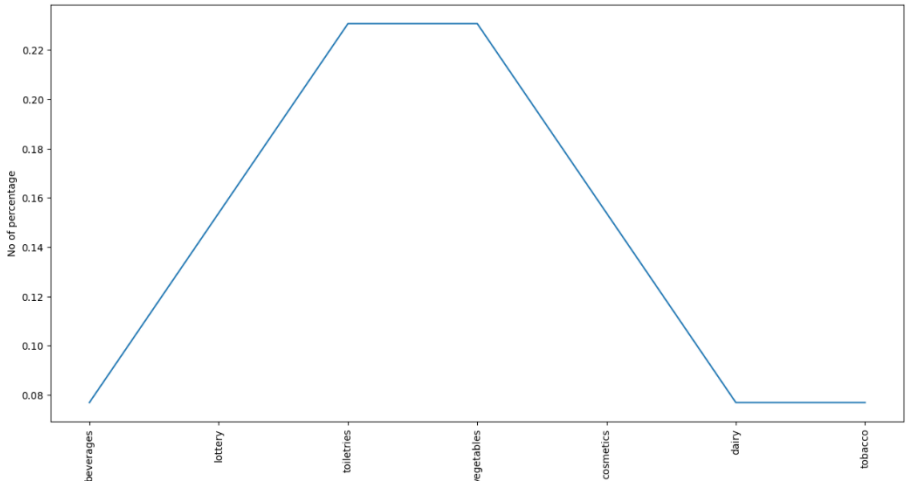
```
import mysql.connector
import seaborn as sns
import matplotlib.pyplot as plt

connection = mysql.connector.connect(host='localhost',user='root',password='root',database='icstore')


connection.is_connected()
db_Info = connection.get_server_info()

print("Connected",db_Info)
cursor = connection.cursor()
cursor.execute("select database();")
record = cursor.fetchone()
print('connected', record)

sql_select_query1 = "select p_cat, COUNT(*) / cast(sum(count(*)) over () as float) as percentage from product group by p_cat;"
cursor = connection.cursor()
cursor.execute(sql_select_query1)
records = cursor.fetchall()
print("Customer data")
category=[]
p=[]
for row in records:
        category.append(row[0])
        p.append(row[1])


sns.lineplot( x = category,
             y = p)
plt.xlabel("Ctaegories")
plt.ylabel("No of percentage")
plt.xticks(rotation = 90)
plt.show()
```

Ans)

Result Grid | Filter Rows:

p_cat	percentage
beverages	0.07692307692307693
lottery	0.15384615384615385
toiletries	0.23076923076923078
vegetables	0.23076923076923078
cosmetics	0.15384615384615385
dairy	0.07692307692307693
tobacco	0.07692307692307693

Plot has been drawn between product categories and percentage from python.



3) Find out the number of sales of each employee?

query3.py - C:\Users\Chandu\Desktop\query3.py (3.10.7)

File Edit Format Run Options Window Help

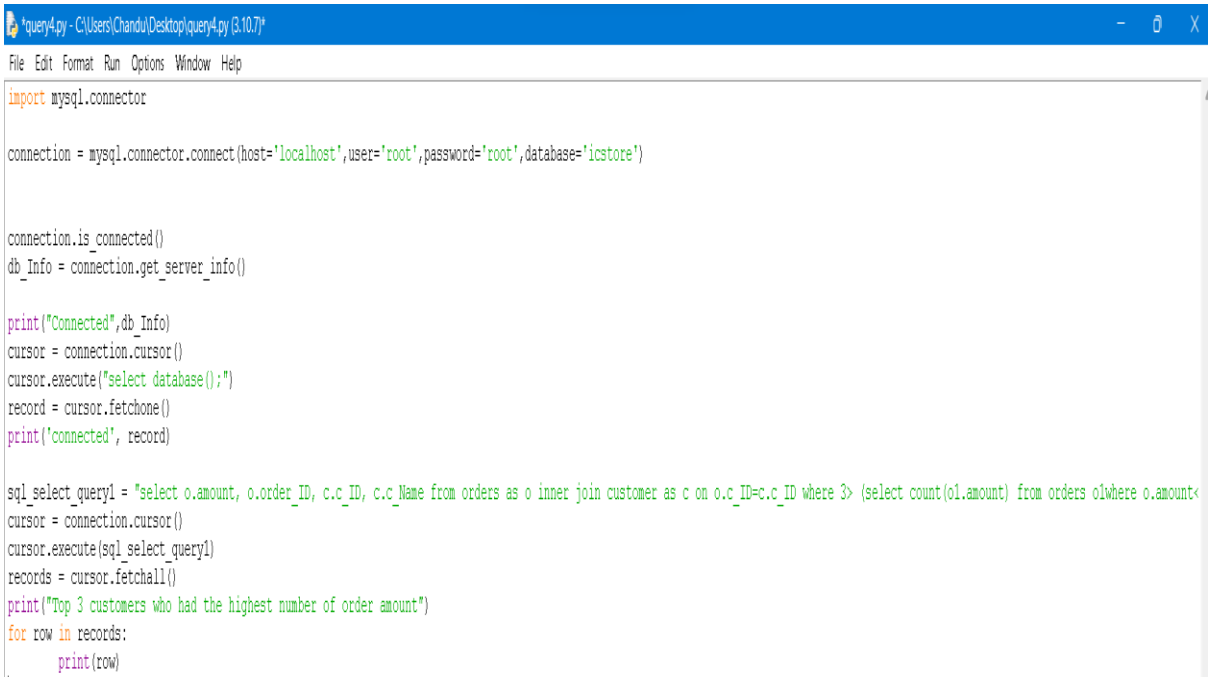
```
import mysql.connector

connection = mysql.connector.connect(host='localhost',user='root',password='root',database='icstore')


connection.is_connected()
db_Info = connection.get_server_info()

print("Connected",db_Info)
cursor = connection.cursor()
cursor.execute("select database();")
record = cursor.fetchone()
print('connected', record)

sql_select_query1 = "select emp_ID, Count(*) as sales from orders group by emp_ID order by sales desc;"
cursor = connection.cursor()
cursor.execute(sql_select_query1)
records = cursor.fetchall()
print("Number of sales of each Employee")
for row in records:
        print(row)
```

Ans)

```
====================================:
Connected 8.0.30
connected ('icstore',)
Number of sales of each Employee
(141, 13)
(3724, 13)
(5841, 13)
(8520, 12)
(879, 11)
(1622, 11)
(4618, 11)
(5002, 11)
(5828, 11)
(5934, 11)
(7414, 11)
(8746, 11)
(9337, 11)
(5936, 10)
(6853, 8)
(4123, 1)
(4124, 1)
(4125, 1)
(4126, 1)
```

4) Top 3 customers who made the highest payments?

This has been done in python using inner join



Query from SQL

```
select o.amount, o.order_ID, c.c_ID, c.c_Name from orders as o inner join customer as c on o.c_ID=c.c_ID
 where 3> (select count(o1.amount) from orders o1
 where o.amount<o1.amount);
```

Ans)

```
================================================================
Connected 8.0.30
connected ('icstore',)
Top 3 customers who had the highest number of order amount
(1588, 9118, 'Syu jhong', 602)
(667, 9118, 'Chris', 604)
(125, 9119, 'Prerna', 601)
'
```

5) Plot the graph between customers ID and amount?

query5.py - C:\Users\Chandu\Desktop\query5.py (3.10.7)

File Edit Format Run Options Window Help

```
import mysql.connector
import seaborn as sns
import matplotlib.pyplot as plt

connection = mysql.connector.connect(host='localhost',user='root',password='root',database='icstore')


connection.is_connected()
db_Info = connection.get_server_info()

print("Connected",db_Info)
cursor = connection.cursor()
cursor.execute("select database();")
record = cursor.fetchone()
print('connected', record)

sql_select_query1 = "select distinct c.c_ID, o.aamount from placed as c inner join orders as o on o.amount=c.amount;"
cursor = connection.cursor()
cursor.execute(sql_select_query1)
records = cursor.fetchall()
print("Orders and amount graph")
orders=[]
amount=[]
for row in records:
        orders.append(row[0])
        amount.append(row[1])


sns.lineplot( x = orders,
            y = amount)
plt.xlabel("Order Id")
plt.ylabel("Amount")
plt.xticks(rotation = 90)
plt.show()
```

Ans)