12-11-22

Module 11.1

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Report 1: The first report we queried was focused on how many unique, or new in this case, clients have been added for each month the past six months.

Query 1: WITH CTE AS (SELECT transaction\_table.customer\_id, MIN(transaction\_table.DATETIME) AS datetimecol FROM transaction\_table GROUP BY customer\_id) SELECT date\_format(datetimecol, "%Y-%m") as mnth, count(distinct customer\_id) as num\_joined FROM CTE GROUP BY date\_format(datetimecol, "%Y-%m") order by mnth desc limit 6;

Report 2: The second report we compiled determined What the average amount of assets for the entire client list currently is.

Query: select sum(transaction\_table.transaction\_amount) / count(customer\_table.customer\_id) row\_count from transaction\_table join customer\_table;

Report 3: The final report we ran focused on finding clients that had more than ten unique transactions a month.

Query: select customer\_table.name, count(transaction\_table.transaction\_amount) from transaction\_table inner join customer\_table on customer\_table.customer\_id=transaction\_table.customer\_id group by customer\_table.name having count(transaction\_table.transaction\_amount) >= 10;

IDE Screenshot of Python Code:

Timeline

Description automatically generated with medium confidence

Python Code:

import mysql.connector  
from mysql.connector import errorcode  
  
config = {  
 "user": "Wilson", # root  
 "password": "admin", # root\_password  
 "host": "127.0.0.1",  
 "database":"Finance",  
 "raise\_on\_warnings": True  
}  
  
try:  
 db = mysql.connector.connect(\*\*config)  
  
 cursor = db.cursor()  
 print("Average Asset Value")  
 cursor.execute("select sum(transaction\_amount) / count(distinct customer\_id) from transaction\_table;")  
 rows = cursor.fetchall()  
 for row in rows:  
 for col in row:  
 print("$" + str(round(col, 2)), end=" ")  
 print()  
  
 cursor = db.cursor()  
 print("Clients with more than 10 transactions a month")  
 cursor.execute("select customer\_table.name, count(transaction\_table.transaction\_amount) from transaction\_table inner join customer\_table on customer\_table.customer\_id=transaction\_table.customer\_id group by customer\_table.name having count(transaction\_table.transaction\_amount) >= 10;")  
 rows = cursor.fetchall()  
 for row in rows:  
 for col in row:  
 print(col, end=" ")  
 print()  
  
 cursor = db.cursor()  
 print("New Clients added for each month in the past six months")  
 cursor.execute("WITH CTE AS (SELECT transaction\_table.customer\_id, MIN(transaction\_table.DATETIME) AS datetimecol FROM transaction\_table GROUP BY customer\_id) SELECT date\_format(datetimecol, '%Y-%m') as mnth, count(distinct customer\_id) as num\_joined FROM CTE GROUP BY date\_format(datetimecol, '%Y-%m') order by mnth desc limit 6;")  
 rows = cursor.fetchall()  
 for row in rows:  
 for col in row:  
 print(col, end=" ")  
 print()  
  
 # Close connection  
 db.close()  
  
  
except mysql.connector.Error as err:  
 if err.errno == errorcode.ER\_ACCESS\_DENIED\_ERROR:  
 print(" The supplied username or password is invalid")  
  
 elif err.errno == errorcode.ER\_ACCESS\_DENIED\_ERROR:  
 print(" The specified database does not exist")  
  
 else:  
 print(err)  
  
finally:  
 db.close()

Query Results:

