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CSD 310: Database Development and Use

Project Milestone: Outland Adventures

Milestone 3

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# Equipment Sales Report

This report is attempting to help Outland Adventures decide whether it is worth it for the company to continue selling equipment instead of just renting. “Do enough customers buy equipment to keep equipment sales?” We queried the customer table to count how many customers rented their equipment and how many bought it.

Python Script:

import mysql.connector

#connect to the database

db = mysql.connector.connect(

    host="localhost",

    user="root",

    password= "password",

    database= "outlandadventures"

)

#create a cursor

cursor = db.cursor()

#Count how many customers rented equipment

cursor.execute('SELECT COUNT(supplies) FROM customer WHERE supplies = "rented";')

info = cursor.fetchall()

print()

print("-- DISPLAYING CUSTOMER RENTAL RECORDS --")

print(f"Number of customers who rented equipment: {info[0][0]}")

print()

#Count how many customers purchased equipment

cursor.execute('SELECT COUNT(supplies) FROM customer WHERE supplies = "bought";')

info = cursor.fetchall()

print("-- DISPLAYING CUSTOMER PURCHASE RECORDS --")

print(f"Number of customers who purchased equipment: {info[0][0]}")

print()

#close the database

db.close()

Results:

Text

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# Number of Treks per Location Report

This report is attempting to help them answer their question. “So far, they have conducted treks in Africa, Asia, and Southern Europe. Is there any one of those locations that has a downward trend in bookings?” We queried the trip table and counted how many trips were for each destination.

Python Script:

import mysql.connector

#connect to the database

db = mysql.connector.connect(

    host="localhost",

    user="root",

    password= "rBillie-0928t",

    database= "outlandadventures"

)

#create a cursor

cursor = db.cursor()

#Count how many treks were to Africa

cursor.execute('SELECT COUNT(destination\_name) FROM trip WHERE destination\_name = "Africa";')

info = cursor.fetchall()

print()

print("-- DISPLAYING AFRICA TREK RECORDS --")

print(f"Number of treks to Africa: {info[0][0]}")

print()

#Count how many treks were to Asia

cursor.execute('SELECT COUNT(destination\_name) FROM trip WHERE destination\_name = "Asia";')

info = cursor.fetchall()

print("-- DISPLAYING ASIA TREK RECORDS --")

print(f"Number of treks to Asia: {info[0][0]}")

print()

#Count how many treks were to Southern Europe

cursor.execute('SELECT COUNT(destination\_name) FROM trip WHERE destination\_name = "Southern Europe";')

info = cursor.fetchall()

print("-- DISPLAYING SOUTHERN EUROPE TREK RECORDS --")

print(f"Number of treks to Southern Europe: {info[0][0]}")

print()

#close the database

db.close()

Results:

Text

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# Aged Equipment Report

We wanted to help Outland Adventures answer their question. “They are a little concerned about the age of some of the inventory. Are there inventory items that are over five years old?” We needed to query the ‘supplies’ table for the date the equipment was added to inventory. Then we needed to check if that date was more than five (5) years old.

Python Script:

import mysql.connector

#connect to the database

db = mysql.connector.connect(

    host="localhost",

    user="root",

    password= "rBillie-0928t",

    database= "outlandadventures"

)

#create a cursor

cursor = db.cursor()

#Count how much equipment older than five years old

cursor.execute('SELECT COUNT(\*) FROM supplies WHERE CAST(date\_added AS DATE) < NOW() - interval 5 year;')

info = cursor.fetchall()

print()

print("-- DISPLAYING SUPPLIES RECORDS --")

print(f"Equipment older than 5 years: {info[0][0]}")

print()

#close the database

db.close()

Output:

Text

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