Assignment: Module 10.1 Assignment

Assignment: Milestone #2

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Bacchus_Milestone_2

Group 2

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Code:

```
import mysql.connector
from mysql.connector import errorcode
# Connect to MySQL database
try:
   # Establish database connection
   db = mysql.connector.connect(
       user="root",
        password="popcorn",
       host="127.0.0.1",
        database="bacchus",
        raise on warnings=True
   print("\nDatabase user {} connected to MySQL on host {} with database
{}".format("root", "127.0.0.1", "movies"))
    input("\nPress any key to continue...")
    cursor = db.cursor()
    create tables query = [
        CREATE TABLE Employees (
            employee id INT AUTO INCREMENT PRIMARY KEY,
            name VARCHAR(255),
            department VARCHAR(255),
           title VARCHAR(255)
```

```
CREATE TABLE Suppliers (
    supplier id INT AUTO INCREMENT PRIMARY KEY,
    name VARCHAR(255),
    product type VARCHAR(255),
    delivery frequency VARCHAR(255)
CREATE TABLE Products (
    product id INT AUTO INCREMENT PRIMARY KEY,
    name VARCHAR(255),
    type VARCHAR(255)
CREATE TABLE Orders (
    order id INT AUTO INCREMENT PRIMARY KEY,
    product id INT,
    supplier id INT,
    quantity INT,
    order date DATE,
    FOREIGN KEY (product id) REFERENCES Products(product id),
    FOREIGN KEY (supplier_id) REFERENCES Suppliers(supplier_id)
CREATE TABLE Shipments (
    shipment id INT AUTO INCREMENT PRIMARY KEY,
    supplier id INT,
    expected delivery DATE,
    actual delivery DATE,
    FOREIGN KEY (supplier id) REFERENCES Suppliers(supplier id)
CREATE TABLE Distributors (
    distributor id INT AUTO INCREMENT PRIMARY KEY,
    name VARCHAR(255),
    product id INT,
    FOREIGN KEY (product id) REFERENCES Products(product id)
CREATE TABLE EmployeeHours (
```

```
employee_id INT,
          quarter INT,
          hours worked INT,
          FOREIGN KEY (employee id) REFERENCES Employees(employee id)
  # Execute table creation queries
  for query in create tables query:
      cursor.execute(query)
  db.commit()
  # Populate tables with sample data
  # Insert statements for each table
  # Select statements for each table
Define insert statements for each table
  employees data = [
      ("Jane vu", "Finance", "Financial Analyst"),
      ("Margaret Murphy", "Marketing", "Marketing Head"),
      ("Krish bob", "Marketing", "Assistant"),
      ("David Doyle", "Production", "Production Manager"),
      ("John Sexton", "Distribution", "Distribution Manager"),
      ("Charles Waston", "Supply", "Supply Manager")
  suppliers data = [
      ("Supplier A", "Blue and Red", "Monthly"),
      ("Supplier B", "Sky and Moon", "Monthly"),
      ("Supplier C", "Yellow and Boxes", "Monthly")
  ]
  products data = [
      ("Pinot noir", "Red Wine"),
      ("Syrah", "Red Wine"),
      ("Riesling", "White Wine"),
      ("Chardonnay", "White Wine")
  distributors data = [
      ("Distributor 1", 1), # Distributor 1 carries Pinot noir
      ("Distributor 2", 2), # Distributor 2 carries Syrah
      ("Distributor 3", 3), # Distributor 3 carries Riesling
      ("Distributor 4", 4) # Distributor 4 carries Chardonnay
```

```
# Execute insert statements for each table
   cursor.executemany("INSERT INTO Employees (name, department, title)
VALUES (%s, %s, %s)", employees data)
   cursor.executemany("INSERT INTO Suppliers (name, product type,
delivery frequency) VALUES (%s, %s, %s)", suppliers data)
    cursor.executemany("INSERT INTO Products (name, type) VALUES (%s,
%s)", products data)
   cursor.executemany("INSERT INTO Distributors (name, product id) VALUES
(%s, %s)", distributors data)
   db.commit()
except mysql.connector.Error as err:
    if err.errno == errorcode.ER ACCESS DENIED ERROR:
       print("Error: Access denied. Please check your username and
password.")
   elif err.errno == errorcode.ER BAD DB ERROR:
       print("Error: Database does not exist.")
   else:
       print(err)
finally:
   if 'db' in locals() and db.is_connected():
       cursor.close()
       db.close()
```

Output:







