#1. Create a new script called Script10Lab.py.  
  
#2. Connect to your MySQL Server / adventureworks database  
import mysql.connector  
  
db = mysql.connector.connect(user= 'root' ,passwd= 'password' ,host='Localhost' ,database='adventureworks')  
print db  
mycursor = db.cursor()  
mycursor.execute("Show tables")  
print(mycursor.fetchall())  
  
#3. Find total Sales by Credit Card Type  
mycursor.execute("Select CardType, SUM(a.TotalDue) as TotalSales "  
 "From salesorderheader a"  
 "Inner Join creditcard b"  
 "ON a.CreditCardID = b.CreditCardID"  
 "Grpup By CardType;")  
print(mycursor.fetchall())  
  
#4. 2. Find total Sales by Product  
mycursor.execute("Select Product, SUM(a.TotalDue) as TotalSales"  
 "From salesorderheader a"  
 "Inner Join product b"  
 "ON a.ProductID = b.ProductID"  
 "Group By Product;")  
print(mycursor.fetchall())  
  
#5. 3. Find total Sales by Ship State  
mycursor.execute("select stateprovince.Name, sum(salesorderdetail.orderqty \* salesorderdetail.unitprice) as TotalSales"  
 "from adventureworks.salesorderdetail"  
 "inner join salesorderheader"  
 "on salesorderdetail.SalesOrderID = salesorderheader.SalesOrderID"  
 "inner join stateprovince"  
 "on stateprovince.TerritoryID = salesorderheader.TerritoryID"  
 "where StateProvinceCode like '%A%'"  
 "group by StateProvinceCode;")  
print(mycursor.fetchall())  
  
#6. 4. Find total Sales by Territory Group  
mycursor.execute("select CountryRegionCode, sum(salesorderdetail.orderqty \* salesorderdetail.unitprice) as TotalSales"  
 "from adventureworks.salesorderdetail"  
 "inner join salesorderheader"  
 "on salesorderdetail.SalesOrderID = salesorderheader.SalesOrderID"  
 "inner join stateprovince"  
 "on stateprovince.TerritoryID = salesorderheader.TerritoryID;")  
print(mycursor.fetchall())  
  
#7. 5. Find Total Sales by Ship Method  
mycursor.execute("select sum(salesorderheader.TotalDue), shipmethod.Name as ShipMethName"  
 "from adventureworks.salesorderheader"  
 "left join adventureworks.shipmethod"  
 "on salesorderheader.ShipMethodID = shipmethod.ShipMethodID"  
"group by Name;")  
print(mycursor.fetchall())  
  
#8. 6. Find Total Sales by Product Subcategory.  
mycursor.execute("select productsubcategory.Name, product.Name as SubCatName, sum(salesorderdetail.orderqty \* salesorderdetail.unitprice) as ProductSales"  
 "from adventureworks.salesorderdetail"  
 "inner join product"  
 "on salesorderdetail.ProductID = product.ProductID"  
 "inner join adventureworks.productsubcategory"  
 "on productsubcategory.ProductSubcategoryID = product.ProductSubcategoryID"  
 "group by productsubcategory.Name")  
print(mycursor.fetchall())