*1. create a table attribute dataset and dress dataset*

# Query to create a table Attribute  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#")  
print(mydb)  
cursor = mydb.cursor()  
cursor.execute("create table sudhanshu.Attribute(Dress\_ID int(10), Style varchar(20), Price varchar(20), Rating float, Size varchar(10), Season varchar(10), NeckLine varchar(20),SleeveLength varchar(20), waiseline varchar(20), Material varchar(30), FabricType varchar(20), Decoration varchar(20), Pattern\_Type varchar(20), Recommendation int(2))")

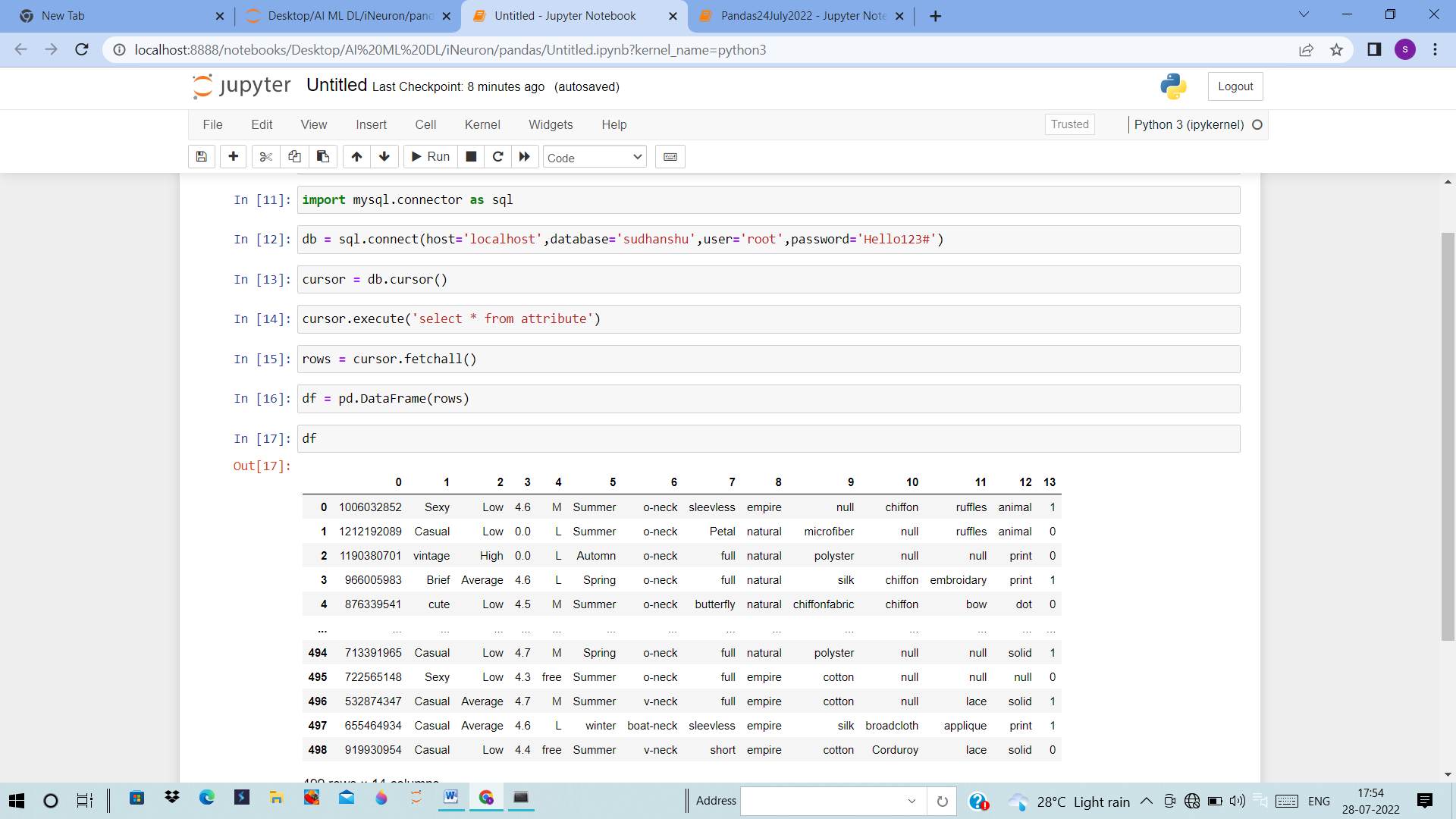
# Query to create a table Attribute  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#")  
print(mydb)  
cursor = mydb.cursor()  
cursor.execute("create table sudhanshu.DressSales(Dress\_ID int(12),29\_8\_2013 varchar(20),31\_8\_2013 varchar(20),2013\_02\_09 varchar(20),2013\_04\_09 varchar(20),2013\_06\_09 varchar(20),2013\_08\_09 varchar(20),2013\_10\_09 varchar(20),2013\_12\_09 varchar(20),14\_9\_2013 varchar(20),16\_9\_2013 varchar(20),18\_9\_2013 varchar(20),20\_9\_2013 varchar(20),22\_9\_2013 varchar(20),24\_9\_2013 varchar(20),26\_9\_2013 varchar(20),28\_9\_2013 varchar(20),30\_9\_2013 varchar(20),2013\_02\_10 varchar(20),2013\_04\_10 varchar(20),2013\_06\_10 varchar(20),2010\_08\_10 varchar(20),2013\_10\_10 varchar(20),2013\_12\_10 varchar(20))")

2. do a bulk load for these two tables for respective dataset

# Query to import data into the table attribute from Attribute dataset  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#")  
print(mydb)  
cursor = mydb.cursor()  
s1 = "LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/AttributeDataSet2.csv' INTO TABLE sudhanshu.attribute FIELDS TERMINATED BY ','"  
cursor.execute(s1)  
mydb.commit()  
cursor.close()

# Query to import data into the table dresssales from Dress sales dataset  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#")  
print(mydb)  
cursor = mydb.cursor()  
s1 = "LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/DressSales.csv' INTO TABLE sudhanshu.dresssales FIELDS TERMINATED BY ','"  
cursor.execute(s1)  
mydb.commit()  
cursor.close()

3. read these dataset in pandas as a dataframe



4. convert attribute dataset in json format

# convert the dataframe to json

df.to\_json("js2.json")

pwd

5. store this dataset into mangodb

import pandas as pd

import pymongo

import mysql.connector as sql

db = sql.connect(host='localhost',database='sudhanshu',user='root',password='Hello123#')

cursor = db.cursor()

cursor.execute('select \* from attribute')

columns = [col[0] for col in cursor.description]

rows = cursor.fetchall()

df = pd.DataFrame(rows,columns=columns)

df

# convert the dataframe to json

df.to\_json("js2.json")

pwd

'C:\\Users\\shara\\Desktop\\AI ML DL\\iNeuron\\pandas'

# read json file

df2 = pd.read\_json("js2.json")

df2.head(5)

df2.shape

data = df2.to\_dict(orient="records")

data

client = pymongo.MongoClient("mongodb+srv://ineuronsharanvy123:Hello123#@cluster0.7km8t.mongodb.net/?retryWrites=true&w=majority")

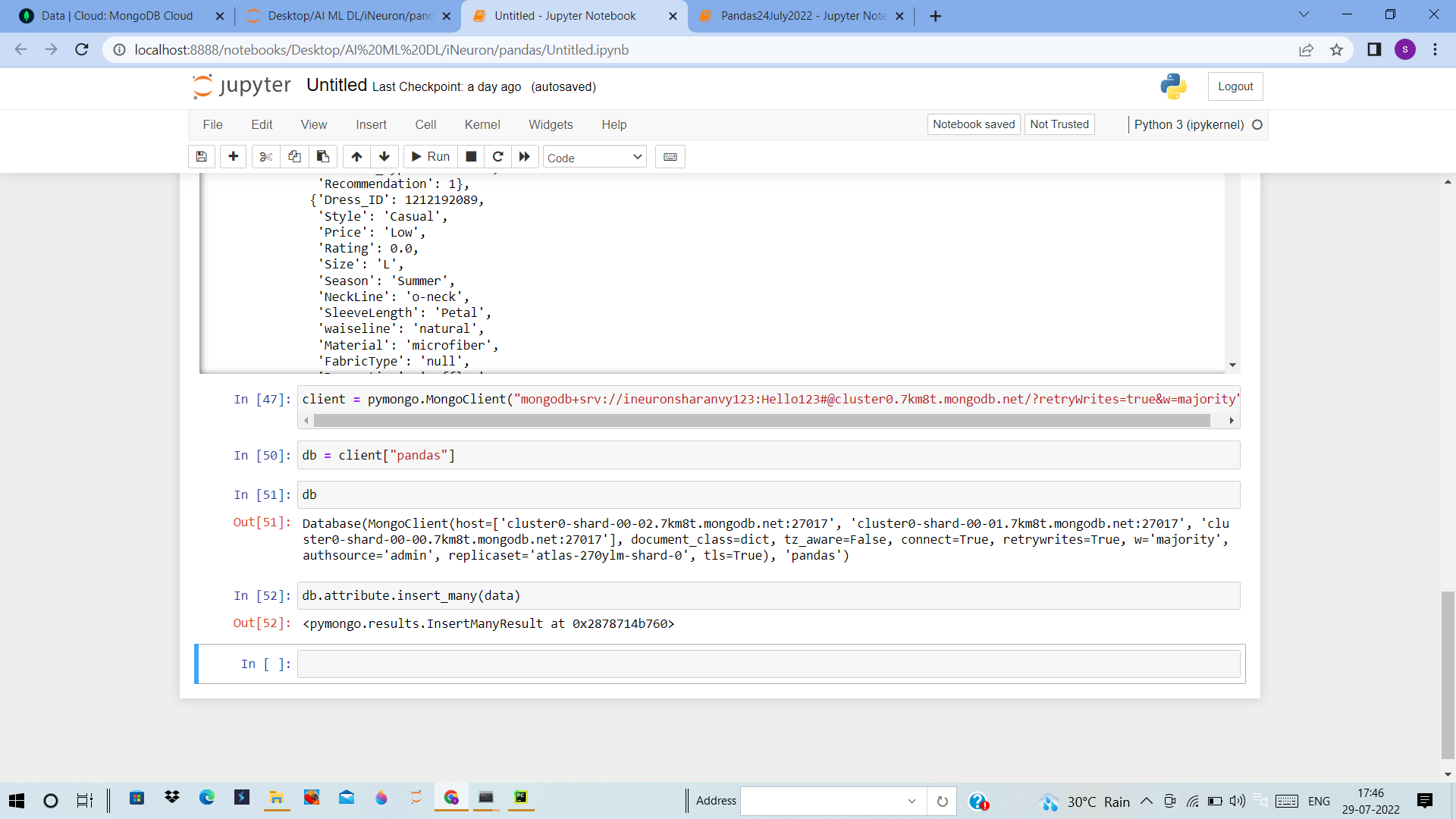
db = client["pandas"]

db

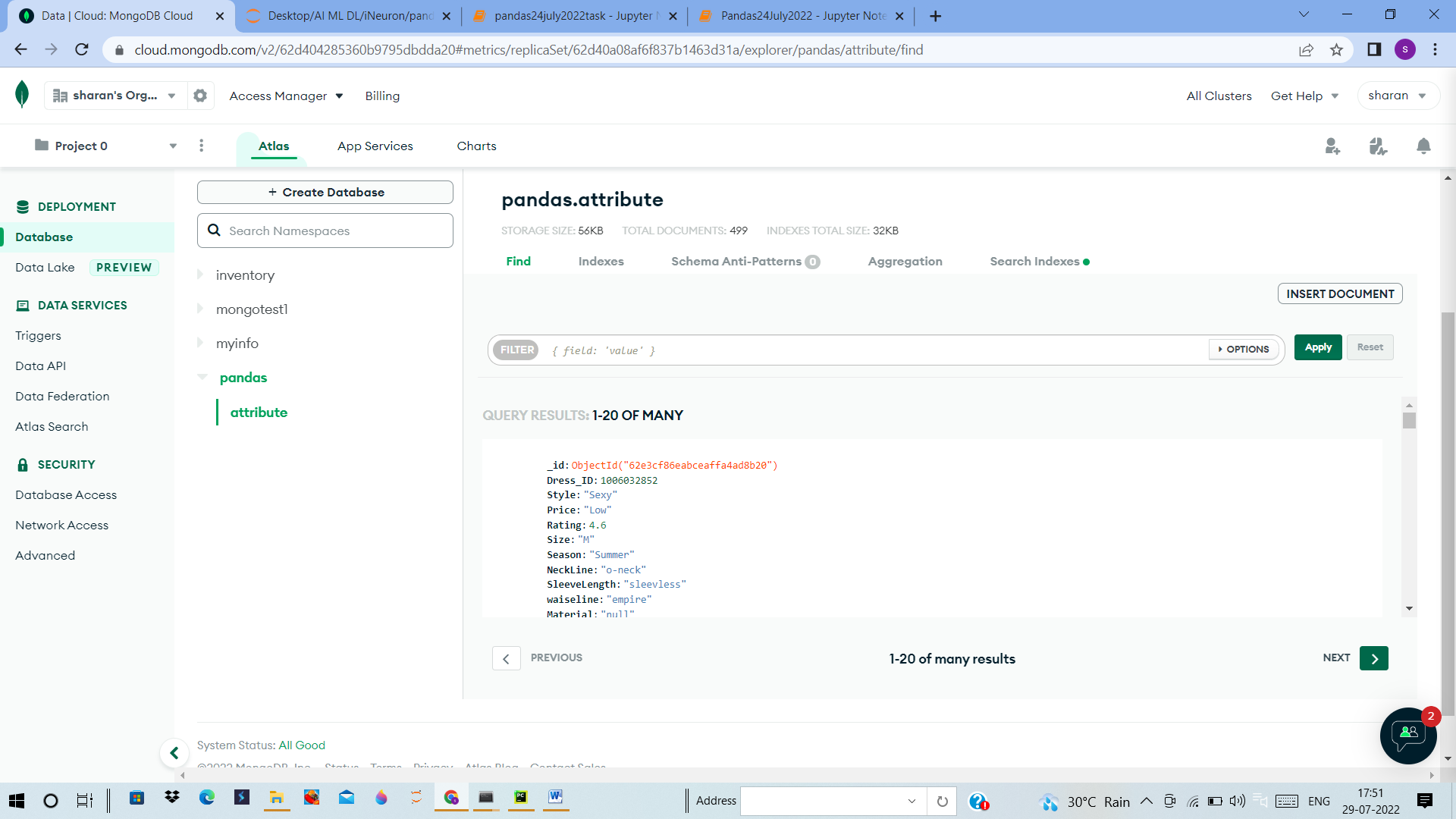
Database(MongoClient(host=['cluster0-shard-00-02.7km8t.mongodb.net:27017', 'cluster0-shard-00-01.7km8t.mongodb.net:27017', 'cluster0-shard-00-00.7km8t.mongodb.net:27017'], document\_class=dict, tz\_aware=False, connect=True, retrywrites=True, w='majority', authsource='admin', replicaset='atlas-270ylm-shard-0', tls=True), 'pandas')

db.attribute.insert\_many(data)

<pymongo.results.InsertManyResult at 0x2878714b760>



Data is stored in mongodb pandas database, attribute collection



6) in sql task try to perform left join operation with attribute dataset on column dress id

select \* from dresssales left join attribute on dresssales.dress\_id = attribute.dress\_id;

# task try to perform left join operation with attribute dataset on column dress id  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#",database="sudhanshu")  
print(mydb)  
cursor = mydb.cursor()  
  
# query to perform left join operation  
s = "select \* from dresssales left join attribute on dresssales.dress\_id = attribute.dress\_id"  
cursor.execute(s)

7. write a sql query to find out how many unique dress that we have based on dress id

select count(distinct(Dress\_ID)) from attribute;

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# write a sql query to find out how many unique dress that we have based on dress id  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#",database="sudhanshu")  
print(mydb)  
cursor = mydb.cursor()  
  
# query to find out how many unique dress based on dress id  
s = "select count(distinct(Dress\_ID)) from attribute"  
cursor.execute(s)  
print(cursor.fetchall())

8. Try to find out how many dresses having recomendation zero

select count(Dress\_ID) from attribute where Recommendation = 0;

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# Try to find out how many dresses having recomendation zero  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#",database="sudhanshu")  
print(mydb)  
cursor = mydb.cursor()  
  
# Query to find out how many dresses having recommendation zero  
s = "select count(Dress\_ID) from attribute where Recommendation = 0"  
cursor.execute(s)  
print(cursor.fetchall())

9. Try to find out total dress sell for individual dress id

select Dress\_ID, sum(29\_8\_2013+31\_8\_2013 +2013\_02\_09 +2013\_04\_09 +2013\_06\_09 +2013\_08\_09 +2013\_10\_09 +2013\_12\_09 +14\_9\_2013 +16\_9\_2013 +18\_9\_2013+20\_9\_2013+22\_9\_2013 +24\_9\_2013 +26\_9\_2013 +28\_9\_2013 +30\_9\_2013 +2013\_02\_10 +2013\_04\_10+2013\_06\_10 +2010\_08\_10 +2013\_10\_10 +2013\_12\_10 )

from dresssales

group by Dress\_ID;

# Try to find out total dress sell for individual dress id  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#",database="sudhanshu")  
print(mydb)  
cursor = mydb.cursor()  
  
# Query to find out total dress sell for individual dress id  
s = "select Dress\_ID, sum(29\_8\_2013+31\_8\_2013 +2013\_02\_09 +2013\_04\_09 +2013\_06\_09 +2013\_08\_09 +2013\_10\_09 +2013\_12\_09 +14\_9\_2013 +16\_9\_2013 +18\_9\_2013+20\_9\_2013+22\_9\_2013 +24\_9\_2013 +26\_9\_2013 +28\_9\_2013 +30\_9\_2013 +2013\_02\_10 +2013\_04\_10+2013\_06\_10 +2010\_08\_10 +2013\_10\_10 +2013\_12\_10 ) from dresssales group by Dress\_ID"  
cursor.execute(s)  
print(cursor.fetchall())

10. Try to find out 3rd highest most selling dress

# Try to find out 3rd highest most selling dress  
  
import mysql.connector as conn  
mydb = conn.connect(host="localhost",user="root",passwd="Hello123#",database="sudhanshu")  
print(mydb)  
cursor = mydb.cursor()  
  
# The below query would give result of 3rd highest selling dress on particular date  
s = "select Dress\_ID, 29\_8\_2013 from dresssales order by 29\_8\_2013 desc limit 2,1"  
cursor.execute(s)  
print(cursor.fetchall())