WORKSHEET 3 SQL

Q1. Write SQL query to create table Customers.

- > import sqlite3
- db = sqlite3.connect("my_testbase.db")
- cursor=db.cursor()
- cursor.execute("CREATE TABLE customer1(customerNumber INT PRIMARY KEY,customerName TEXT,contactLastName TEXT,contactFirstName TEXT,phone INT,addressLine1 TEXT,addressLine2 TEXT,city TEXT,state TEXT,postalCode INT,country TEXT,salesRepEmployeeNumber INT,creditLimit INT)")
- cursor.execute("INSERT INTO
 customer1(customerNumber,customerName,contactLastName,contactFirstName,ph
 one,addressLine1,addressLine2,city,state,postalCode,country,salesRepEmployeeNu
 mber,creditLimit)values(01,'Ram','sinha','Ram',0987,'old Delhi','nagar old
 Delhi','Delhi','DELHI',00001,'INDIA',01,10000)")
 db.commit()
 print(cursor.rowcount,"Record(s) inserted")
- cursor.execute("INSERT INTO
 customer1(customerNumber,customerName,contactLastName,contactFirstName,ph
 one,addressLine1,addressLine2,city,state,postalCode,country,salesRepEmployeeNum
 ber,creditLimit)values(02,'Shyam','sharma','Shyam',0986,'old
 jakkanpur','purandarpur','Patna','BIHAR',00002,'INDIA',02,20000)")
 db.commit()
 print(cursor.rowcount,"Record(s) inserted")
- cursor.execute("SELECT * FROM customer1")

Q2. Write SQL query to create table **Orders**.

Ans.

- cursor.execute("CREATE TABLE Orders01(status TEXT,orderNumber INT PRIMARY KEY, comments TEXT,customerNumber INT,orderDate INT,requiredDate INT,shippedDate INT)")
- cursor.execute("INSERT INTO Orders01(status,orderNumber, comments,customerNumber,orderDate,requiredDate,shippedDate)values('receive',01,'good work',0187,06-10-2001,06-10-2001)")

```
db.commit()
print(cursor.rowcount,"Record(s) inserted")
```

cursor.execute("INSERT INTO Orders01(status,orderNumber, comments,customerNumber,orderDate,requiredDate,shippedDate)values('waiting',02,'nice work',0245,04-11-2002,04-11-2002)")

```
db.commit()
print(cursor.rowcount,"Record(s) inserted")
```

cursor.execute("SELECT * FROM Orders01")

Q3. Write SQL query to show all the columns data from the **Orders** Table.

```
Ans. df.columns
```

Q4. Write SQL query to show all the comments from the **Orders Table**.

```
Ans.df.comments

O good work

nice work

Name: comments, dtype: object
```

Q5. Write a SQL query to show orderDate and Total number of orders placed on that date, from **Orders** table.

```
Ans. df.orderDate

0 -2005
1 -2009
Name: orderDate, dtype: int64

df.orderNumber

0 1
1 2
Name: orderNumber, dtype: int64
```

Q6. Write a SQL query to show employeeNumber, lastName, firstName of all the employees from **employees** table.

```
df.employeeNumber
```

```
0 1245
1 12748
2 1345
3 12082
```

```
Name: employeeNumber, dtype: int64
df.lastName
0
    George
1
      Wake
     Oliver
      Jones
Name: lastName, dtype: object
df.firstName
      Lucy
1
     Joshua
     Mason
Name: firstName, dtype: object
                     Data=df.iloc[:,[0,1,2]]
                     employeeNumber lastName firstName
```

0 1245 George Lucy 1 12748 Wake Joshua 2 1345 Oliver Mason 3 12082 Nick Jones

Q7. Write a SQL query to show all orderNumber, customerNa me of the person who placed the respective order.

```
df.orderNumber

0 1
1 2
Name: orderNumber, dtype: int64

df.customerName

0 Ram
1 Shyam
Name: customerName, dtype: object
```

Q8. Write a SQL query to show name of all the customers in one column and salerepemployee name in another column

Ans.



Q9. Write a SQL query to show Date in one column and total payment amount of the payments made on that date from the **payments** table.

Ans.

Q10. Write a SQL query to show all the products productName, MSRP, productDescription from the **products** table.

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60000

1

1 2	data_new=df.iloc[:,[1,5,8]] data_new

	productName	productDescription	MSRP	
0	Colgate	Colgate Total was created to prevent and reduc	110	
1	Amul Cow Milk	Amul Milk is the most hygienic liquid milk ava	63	

Q11. Write a SQL query to print the productName, productDescription of the most ordered product.

Ans.

1 dataframe_new=df.iloc[:,[1,5]] 2 dataframe_new

productDescription	productName		
Colgate Total was created to prevent and reduc	Colgate	0	
nul Milk is the most hygienic liquid milk ava	Amul Cow Milk	1	

Q12. Write a SQL query to print the city name where maximum number of orders were placed.

Ans.

SELECT customerName, COUNT(customerName) AS CountOfCust FROM customer1
GROUP BY customerName

Q13. Write a SQL query to get the name of the state having maximum number of customers.

SELECT customerNumber, Count(customerNumber) AS CountOfCust
FROM customer1
GROUP BY number of customer

Q14. Write a SQL query to print the employee number in one column and Full name of the employee in the second column for all the employees.

Ans.

1	df										
	Unnamed:	emplo	oyeeNumber	fullName	lastName	firstName	extension	email	officeCode	reports To	jobTitle
0	0		1245	Lucy George	George	Lucy	Full-time	lucy01@gmail.com	101	HRDept	HR
1	1		12748	Joshua Wake	Wake	Joshua	Full-time	wake04@gmail.com	101	HRDept	HR
2	2		1345	Mason Oliver	Oliver	Mason	Full-time	mason08@gmail.com	101	HRDept	HR
3	3		12082	Nick Jones	Jones	Nick	Full-time	jones04@gmail.com	101	HRDept	HR
1 2	df_new=df.ilo df_new	06[:,[1,2	.11								
	employee <mark>N</mark> u	mber	fullName	•							
0		1245	Lucy George	•							
1	4	12748	Joshua Wake)							

Q15. Write a SQL query to print the orderNumber, customer Name and total amount paid by the customer for that order (quantityOrdered × priceEach).

Ans. SELECT SUM(price)

FROM orderNumber

GROUP BY totalamount

1345 Mason Oliver12082 Nick Jones

THANK YOU