SET	A/B/C

INDIAN SCHOOL MUSCAT FINAL EXAMINATION 2022 INFORMATICS PRACTICES(065)

CLASS: XII Max.Marks: 70

Date: 26/11/2022

MARKING SCHEME					
SET	QN.NO	QN.NO VALUE POINTS			
		SECTION - A			
	1.	In Mysql, is used to avoid duplicate values while displaying query result. DISTINCT	1		
	2.	In Python Command is used to display last five rows of a series object 'S', you may write: iv. S.tail()	1		
	3.	A mail or message sent to a large number of people indiscriminately without their consent is called SPAM	1		
	4.	Identify the odd one from the following: ii. File Explorer i	1		
	5.	is the trail of data we leave behind when we visit any website (or use any online application or portal) to fill-in data or perform any transaction. iii. Digital footprint	1		
	6.	In MySql , command is used to display the structure of the table. DESC	1		
	7.	Identify the domain name of the following URL: www.income.in	1		
	8.	In MSql is used to for character pattern matching Like	1		
	9.	can be defined as the practical and holistic approach and the founding pillar of cutting down waste from our mother earth. E-WASTE	1		
	10.	is the process of gaining unauthorized access into computing device, or group of computer systems. HACKING	1		
	11.	In Pythoncommand is used to give a heading to a graph. TITLE	1		

12.	DML stands for (b) Data Manipulation Language	1
13.	The practice of taking someone else's work or ideas and passing them off as one's own is known as Plagiarism	1
14.	In MySql is used to group all the similar records together.	1
1.5	(c) Group by	1
15.	Legal term to describe the rights of a creator of original creative or artistic work is: i. Copyright	1
16.	is a protocol used to transfer e-mail messages and attachments. SMTP	1
17.	iii. A is True but R is False	
18.	i. Both A and R are true and R is the correct explanation for A	1
	SECTION -B	
10	CELECT CL COLINE (*) EDOM CTUDENT CDOLID BY CL	2
19	SELECT Class, COUNT (*) FROM STUDENT GROUP BY Class _sec Having class_sec="xii" or class_sec="xi"	2
20	0 True	2
	1 False	
	2 False	
	3 False	
	dtype: bool	
21	Comma separated value ½ To transfer the content from csv file to python object name. read_csv("file name") ¾	2
	To transfer the content from python to csv file df1.to_csv() 3/4	
22	Where clause is used to specify the general condition(s) along with select, update and delete. 1 mark with proper example Ex: select * from emp where sal>2000; Having Clause is used to specify the condition along with group by clause. Select deptno,count(*) from emp group by deptno having count(*)>1;1 mark with proper example	2
23	import pandas as pd	2
	data1={'Qtr1':5000,'Qtr2':8000,'Qtr3':12000,'Qtr4': 18000} data2={'A':13000,'B':14000,'C':12000} totSales={"Terms":data1,"Values":data2} df=pd.DataFrame(totSales) print(df)	
	print(df.index) 1 mark	
	print(df.columns)1 mark	
24	Terms Values Qtr3 12000.0 NaN 1 mark	2
	Table 120000 Time	L

	Terms Values Qtr1 5000.0 NaN Qtr4 18000.0 NaN 1 mark C NaN 12000.0							
25	Alter is used to	•					2	
	ALTER TABL	-	,	* *				
	Update is used	-	table values,	,				
	Update emp set	$\frac{1}{1} \frac{1}{1} \frac{1}$	CECTION	1.0				
			SECTION	N-C				
26.	import pandas as pd data=[[1,'Karan',100],[2,'Paul',95],[3,'Sam',96],[4,'Yuvraj',88]] student=pd.DataFrame(data,columns=["Rollno","Name","Marks"]) print(student)					¹ / ₂ + 3	-1+1+1/2=	
27.	Based on table states following	STUDENT giv	en here, writ	e suitable SQ	L queries for	the		
	Roll No	Name	Class	Gender	City	Marks		
	1	Abhishek	XI	M	Agra	430		3
	2	Prateek	XII	M	Mumbai	440	\Box	3
	3	Sneha	XI	F	Agra	470	\Box	
	4	Nancy	XII	F	Mumbai	492	\Box	
	5	Himnashu	XII	M	Delhi	360		
	6	Anchal	XI	F	Dubai	256		
	7	Mehar	X	F	Moscow	324		
	8	Nishant	X	M	Moscow	429		
a) Write a Query to display how many students are there in each city. Select city,count(*) from student group by city; 1 mark b) Write a Query to display all the Male students name. select name from student where gender="M"; 1 mark c) Write a Query to display all the details whose mark is greater than 450. Select * from student where marks>450; 1 mark OR What is the difference between Group By Clause and Order by Clause? Explain with an example. Group by: used to keep all the similar records together 1½ (with an example) Select count(8),deptno from emp group by deptno; Order by is used to sort all the records based on a filed either ascending or descending order. 1½ (with an example) Select * from emp order by name desc / asc;								
28.	import pandas a data=[["nancy" Data1234=pd.I print(Data1234 Data1234["Dec	,200],["sam",3 DataFrame(data)	a,columns=[ary"])		1 1/	½ +1 ½ =3

	print(Data1234) Data1234["NetSal"]=Data1234["Salary"]-Data1234["Deductions"] print(Data1234)			
29.				
	i. Select round(234.54,1)+round(34.67); 234.5+34=268.5 ii. Select mod(45,2)+10; 11 iii. Select upper(left("Welcomes",2)); WE			
30.	a) 4 b) >> a=p.Series(["Van","Car","Lorry","Bus"]) >>> print(a) 0 Van 1 Car 2 Lorry 3 Bus dtype: object >>> a.index.name="Index No" >>> print(a) Index No 0 Van 1 Car 2 Lorry 3 Bus c)False	1+1+1=3		
	SECTION - D			
31.	Write suitable SQL query for the following: i. Display 5 characters extracted from 5th left character onwards from the string 'world leader-2022'. SELECT SUBSTR("WORD LEADER",5,5); ii. Display the position of occurrence of string 'WO' in the string 'WELCOME WORLD'. SELECT INSTR("WELCOME WORLD","WO''); iii. Round off the value 456.78 to two decimal place. Select round(456.78,2); iv. Display the remainder of 75 divided by 5. Select mod(75,5) v. Remove all the leading and trailing spaces from the String " Test 2022 (Assume _ as the blank space) select trim(" Test 2022") OR Explain the following SQL functions using suitable examples. i. LCASE() – used to convert all the upper case characters in to lower case ii. MID() – it is used to extract no of characters based on the position specified iii. TRUNCATE() – it is used to simply the cut the number of decimal point specified iv. DAYNAME() – it is used to display the day name of the week v. POWER() – it is used to find the result of m to the power n	5*1=5		
32.	import pandas as pd import matplotlib.pyplot as plt	5		
	month=['jan','feb','mar','apr'] Avg_monthly_Temp=[32,29,34,30] plt.plot(month,Avg_monthly_Temp,marker="*") 1 plt.xlabel("Month") 1 plt.ylabel("Temp") 1			

```
plt.title("Monthly Temp") 1
       plt.show() 1
                                          OR
       import pandas as pd
       import matplotlib.pyplot as plt
       Term=['TERM 1','TERM 2','TERM 3','TERM 4']
       Avg_marks=[85,94,84,90]
       df=pd.DataFrame(Avg_marks,Term) 1
       print(df)
       df.plot(kind="bar") 1
       plt.xlabel("Term") 1
       plt.ylabel("Avg_marks") 1
       plt.title("Average Marks")
       plt.show() 1/2
       plt.savefig("aa.jpg")
                                  1/2
33.
         iteritems()
         It is used to access the data column wise.
         Example-
                                                                                   2
         1 import pandas as pd
         2 1 = [{'Name': 'Sachin', 'SirName': 'Bhardwaj'},
                {'Name': 'Vinod', 'SirName':'Verma'}]
         4 df1=pd.DataFrame(1)
         5 print(df1)
         6 for(col_name,col_value) in df1.iteritems():
         7
               print('\n')
         8
               print('Column Name is ::',col_name)
         9
               print('Column Values are::')
        9 print('Column Va.
10 print(col value)
         >> del df['List3'] --> We can simply delete a column by passing
         column name in subscript with df
                                                                                   1
         >>df
         Output-
          List1 List2
          10 20
         1 15 20
            18
                 20
            22
       c)
```

	Accessing the data frame through iloc()	
	It is used to access a group of rows and columns based on numeric index value.	2
	Syntax-	
	Df.loc[StartRowindexs : EndRowindex, StartColumnindex : EndColumnindex]	
	Note - If we pass : in row or column part then pandas provide	
	the entire row or column respectively.	
	<pre>import pandas as pd Runs={ 'TCS': { 'Qtr1':2500,'Qtr2':2000,'Qtr3':3000,'Qtr4':2000}, 'WIPRO': { 'Qtr1':2800,'Qtr2':2400,'Qtr3':3600,'Qtr4':2400}, 'L&T': { 'Qtr1':2100,'Qtr2':5700,'Qtr3':35000,'Qtr4':2100}} df=pd.DataFrame(Runs) print(df)</pre>	
	print(df.iloc[8:2,1:2]) print(df.iloc[8:2,1:2]) print(df.iloc[8:2,1:2]) and Second column	
	SECTION-E	
34.	a)Select cname from cloth where cname like "%s%";	2+2=4
	b) Select * from cloth where price not between 750 and 800;	
35.	import pandas as pd data={"Rollno":[1,2,3,4,5],"Name":["Rhea","paul","Karan","Aishwarya","S anjey"], "Total Marks":[450,415,449,400,471]}	1/2+1/2+1/2+1/2+ 2
	df1=pd.DataFrame(data)	
	print(df1) print(df1.loc[2:3])	
	or	
	import pandas as pd data={"Rollno":[1,2,3,4,5],"Name":["Rhea","paul","Karan","Aishwarya","S anjey"],	
	"Total Marks":[450,415,449,400,471]}	
	df1=pd.DataFrame(data)	
	print(df1) print(df1[df1["Total Marks"]>=450])	