



ARMY PUBLIC SCHOOL, BANGALORE

PREBOARD II (2024-25)

Date: 09/12/2024	Set: 1	Max Marks: 70
Subject: Informatics Practices(065)	Name:	Time: 3 Hrs
Class: XII	Roll No:	No of Pages : 13

General Instructions:

- ❖ Please check this question paper contains 37 questions.
- ❖ All questions are compulsory.
- ❖ The paper is divided into 5 Sections- A, B, C, D and E.
- ❖ Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- ❖ Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- ❖ Section C consists of 4 questions (29 to 32). Each question carries 3 Marks.
- ❖ Section D consists of 2 case study type questions (33 to 34). Each question carries 4 Marks.
- ❖ Section E consists of 3 questions (35 to 37). Each question carries 5 Marks.
- ❖ All programming questions are to be answered using Python Language only.
- ❖ In case of MCQ, text of the correct answer should also be written.

Section-A (21 x 1 = 21 Marks)

1.	The GROUP BY clause in SQL is primarily used to: (A) Delete rows from a table (B) Add a new column to the table (C) Remove duplicates from the result set. (D) Group rows that share the same values.	(1)
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2.	<p>Which of the following Python statements can be used to delete a column 'RollNo' from a DataFrame df?</p> <p>(A) df.drop(columns=['column_name']) df.drop(['RollNo'], axis=1, inplace=True)</p> <p>(B) df.pop('RollNo')</p> <p>(C) del df['RollNo']</p> <p>(D) All of the above</p>	(1)
3.	<p>In which of the network topologies are all devices(nodes) on the network is connected to a central device, such as a hub or a switch?</p> <p>(A) Star</p> <p>(B) Tree</p> <p>(C) Mesh</p> <p>(D) Bus</p>	(1)
4.	<p>Which of the following is not a valid chart type ?</p> <p>(A) lineplot</p> <p>(B) bargraph</p> <p>(C) histogram</p> <p>(D) statistical</p>	(1)
5.	<p>What does e-waste stand for</p> <p>(A) Environmental waste</p> <p>(B) Electronic waste</p> <p>(C) Electrical waste</p> <p>(D) Equipment waste</p>	(1)
6.	<p>It allows a visited website to store its own information about a user on the user's computer:</p> <p>(A) Spam</p> <p>(B) Cookies</p> <p>(C) Malware</p> <p>(D) Adware</p>	(1)
7.	<p>Which of the following attribute is used to convert all rows of a DataFrame to columns and all columns to rows.</p> <p>a. Transpose</p>	(1)

	b. T c. inverse d. dim																															
8.	State whether the following statement is True or False: "In SQL, the DELETE command removes only the records from a table without deleting its table structure."	(1)																														
9.	To extract row/column from a dataframe _____ function may be used. (A) row() (B) column() (C) loc() (D) All of these	(1)																														
10.	Anna Roy, a graphic designer, came up with a visual symbol/ logo for her organization. Which of the following helps her to protect her intellectual property and protects her rights as the creator of the visual symbol/logo? (A) Trademark (B) Patent (C) Copyright (D) Digital Footprints	(1)																														
11.	Consider the Dataframe Temp: <table border="1" data-bbox="193 1391 523 1720"> <thead> <tr> <th></th><th>City</th><th>Temp</th></tr> </thead> <tbody> <tr> <td>Z1</td><td>Delhi</td><td>40</td></tr> <tr> <td>Z2</td><td>Mumbai</td><td>31</td></tr> <tr> <td>Z3</td><td>Chennai</td><td>29</td></tr> <tr> <td>Z4</td><td>Kolkata</td><td>39</td></tr> <tr> <td>Z5</td><td>Pune</td><td>28</td></tr> </tbody> </table> What will be output for the below given python statement: - print(Temp.head(-2)) <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> (A) <table border="0" data-bbox="229 1895 536 2004"> <tr> <td></td><td>City</td><td>Temp</td></tr> <tr> <td>Z3</td><td>Chennai</td><td>29</td></tr> </table> </div> <div style="text-align: center;"> (B) <table border="0" data-bbox="836 1895 1136 2004"> <tr> <td></td><td>City</td><td>Temp</td></tr> <tr> <td>Z4</td><td>Kolkata</td><td>39</td></tr> </table> </div> </div>		City	Temp	Z1	Delhi	40	Z2	Mumbai	31	Z3	Chennai	29	Z4	Kolkata	39	Z5	Pune	28		City	Temp	Z3	Chennai	29		City	Temp	Z4	Kolkata	39	(1)
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12.	<div>Fill in the Blank</div> <div>The following code create a DataFrame df with _____ columns</div> <div>import pandas as pd</div> <div>df= pd.DataFrame([{'a':25 , 'b':50},{ 'a':15,'b':50,'c':30,'d':50}])</div> <div>print(df)</div> <div>(A) 1 (B) 2 (C) 3 (D) 4</div>	(1)																					
13.	<div>To display first three elements of a Series object S, you may write</div> <div>(A) S[:3]</div> <div>(B) S[3]</div> <div>(C) S[3rd]</div> <div>(D) All of these</div>	(1)																					
14.	<div>Mr. Sridhar , a school teacher wants to transfer data between their smartphone and laptop using Bluetooth in computer lab. Which type of network would this fall under?</div> <div>(A) PAN</div> <div>(B) LAN</div> <div>(C) WAN</div> <div>(D) MAN</div>	(1)																					
15.	<div>A DataFrame is :</div> <div>(A) Value immutable</div> <div>(B) Size immutable</div> <div>(C) Both value and size mutable</div> <div>(D) Both value and size immutable</div>	(1)																					

16.	<div>Match the following SQL functions / clauses with their descriptions:</div> <table><thead><tr><th>SQL Functions</th><th>Descriptions</th></tr></thead><tbody><tr><td>(1) MID()</td><td>(a) Returns the current date and time.</td></tr><tr><td>(2) CONCAT()</td><td>(b) Finds the position(first occurrence) of a substring</td></tr><tr><td>(3) INSTR()</td><td>(c) To extract a substring from a string</td></tr><tr><td>(4) NOW()</td><td>(d) Adds two or more expressions/strings together</td></tr></tbody></table> <div>(A) 1- d , 2 – a , 3 – b , 4 – c (B) 1- a , 2 – d , 3 – b , 4 – c (C) 1- c , 2 – d , 3 – b , 4 – a (D) 1- d , 2 – c , 3 – b , 4 – a</div>	SQL Functions	Descriptions	(1) MID()	(a) Returns the current date and time.	(2) CONCAT()	(b) Finds the position(first occurrence) of a substring	(3) INSTR()	(c) To extract a substring from a string	(4) NOW()	(d) Adds two or more expressions/strings together	(1)														
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17.	<div>What will be the output of the following code?</div> <div>import pandas as pd myser = pd.Series([0,0,0]) print(myser)</div> <div><div>(A)<table><tr><td>0</td><td>0</td></tr><tr><td>0</td><td>0</td></tr><tr><td>0</td><td>0</td></tr></table></div><div>(B)<table><tr><td>0</td><td>1</td></tr><tr><td>0</td><td>1</td></tr><tr><td>0</td><td>2</td></tr></table></div><div>(C)<table><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>0</td></tr><tr><td>2</td><td>0</td></tr></table></div><div>(D)<table><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr></table></div></div>	0	0	0	0	0	0	0	1	0	1	0	2	0	0	1	0	2	0	0	0	1	1	2	2	(1)
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18.	<div>URL stands for _____</div> <div>(A) Unique reference label (B) Uniform reference label (C) Uniform Resource Locator (D) Unique Resource Locator</div>	(1)																								

19.	Ms Trisha who is an employee of a private sector organization receives an email claiming to be their bank, asking them to click a link and update their personal information. This is an example of which type of cybercrime? (A) Phishing (B) Stalking (C) Ransomware (D) Spyware	(1)																				
Q20 and Q21 are ASSERTION AND REASONING based questions. Choose the correct option as: (A) Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A) (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A) (C) Assertion (A) is True, but Reason (R) is False (D) Assertion (A) is False, but Reason (R) is True																						
20.	Assertion (A): Histograms are column-charts, where each column represents a range of values, and the height of a column corresponds to how many values are in that range. Reason (R): Histograms is created using histplot() function.	(1)																				
21.	Assertion (A): The primary law in India dealing with cybercrime and electronic commerce is Indian Technology Act, 2000. Reasoning (R): Intellectual Property refers to the inventions, literary and artistic expressions, designs and symbols, names and logos.	(1)																				
Section-B (7 x 2 = 14 Marks)																						
22.	(A) What is the difference between LAN and MAN? OR (B) What is a Gateway? Explain.	(2)																				
23.	Write a Python program to create the following DataFrame Student using a List of Dictionaries <table><tr><td></td><td>Sno</td><td>Sname</td><td>Mail</td><td>Mark</td></tr><tr><td>S01</td><td>1</td><td>Nishant</td><td>n@gmail.com</td><td>95</td></tr><tr><td>S02</td><td>2</td><td>Chirag</td><td>c@gmail.com</td><td>98</td></tr><tr><td>S03</td><td>3</td><td>Yoganand</td><td>y@gmail.com</td><td>92</td></tr></table>		Sno	Sname	Mail	Mark	S01	1	Nishant	n@gmail.com	95	S02	2	Chirag	c@gmail.com	98	S03	3	Yoganand	y@gmail.com	92	(2)
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S01	1	Nishant	n@gmail.com	95																		
S02	2	Chirag	c@gmail.com	98																		
S03	3	Yoganand	y@gmail.com	92																		

24.	<p>Sheetal is a Trainee Software Engineer in an ecommerce company. She has been assigned a task to find the average price of product for categories available on the website of the company but display only those where the average price in the category is more than 150. She wrote the following SQL query but she is getting error in it.</p> <p>Select PNAME, AVG(PRICE) from product where AVG(Price)>150;</p> <p>Help her in identifying the reason for the error and write the correct query by suggesting the possible correction.</p>	(2)																														
25.	<p>(A) What is a Series in Python Pandas? Explain with an example.</p> <p>OR</p> <p>(B) How do the head() and tail() functions work in a Pandas Series?</p>	(2)																														
26.	<p>Pooja writes the following commands with respect to a table employee having fields, empno, name, department, commission.</p> <p>Command1 : Select count(*) from employee;</p> <p>Command2: Select count(commission) from employee;</p> <p>She gets the output as 4 for the first command but gets an output 3 for the second command. Explain the output with justification.</p>	(2)																														
27.	<p>What do you understand by digital footprint? What are the different types of digital footprints?</p>	(2)																														
28.	<p>(A) Consider following dataframe “SalesData” :</p> <table><tr><th></th><th>EmpCode</th><th>Zone</th><th>Product</th><th>SalesQty</th></tr><tr><td>10</td><td>E101</td><td>NORTH</td><td>DESKTOP</td><td>160</td></tr><tr><td>20</td><td>E102</td><td>SOUTH</td><td>LAPTOP</td><td>290</td></tr><tr><td>30</td><td>E103</td><td>EAST</td><td>MONITOR</td><td>70</td></tr><tr><td>40</td><td>E104</td><td>WEST</td><td>MONITOR</td><td>347</td></tr><tr><td>50</td><td>E105</td><td>SOUTH</td><td>PROCESSOR</td><td>90</td></tr></table> <p>(i) Write python statement to display only those rows where the Product is MONITOR.</p> <p>(ii) Write python statement to display only Zone column.</p> <p>OR</p> <p>(B) What will be the output of the following:</p> <pre>import pandas as pd x= [20, 40,90, 110] y=pd.Series([20, 40,90, 110]) print (x*2) print(y*2)</pre>		EmpCode	Zone	Product	SalesQty	10	E101	NORTH	DESKTOP	160	20	E102	SOUTH	LAPTOP	290	30	E103	EAST	MONITOR	70	40	E104	WEST	MONITOR	347	50	E105	SOUTH	PROCESSOR	90	(2)
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50	E105	SOUTH	PROCESSOR	90																												
Section-C (4 x 3 = 12 Marks)																																

29.	Explain the following: (a) Plagiarism (b) Email spoofing (c) FOSS	(3)																										
30.	<p>(A) Write a Python program to create the following DataFrame DFComp using a Dictionary of Series</p> <table><tr><td></td><td>Company</td><td>City</td><td>EmpCount</td></tr><tr><td>C1</td><td>Microsoft</td><td>San Fransico</td><td>221000</td></tr><tr><td>C2</td><td>Coco Cola</td><td>New York</td><td>79100</td></tr><tr><td>C3</td><td>Infosys</td><td>Bangalore</td><td>317000</td></tr><tr><td>C4</td><td>Toyota</td><td>Toyota City</td><td>380793</td></tr></table> <p>OR</p> <p>(B). Write a Python Program to create a Pandas Series Players as shown below using a dictionary. Note that the left column indicates the indices and the right column displays the data.</p> <table><tr><td>Virat Kohli</td><td>Cricket</td></tr><tr><td>Neeraj Chopra</td><td>Javelin throw</td></tr><tr><td>Mary Kom</td><td>Boxing</td></tr></table>		Company	City	EmpCount	C1	Microsoft	San Fransico	221000	C2	Coco Cola	New York	79100	C3	Infosys	Bangalore	317000	C4	Toyota	Toyota City	380793	Virat Kohli	Cricket	Neeraj Chopra	Javelin throw	Mary Kom	Boxing	(3)
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31.	<p>I. Write an SQL statement to create a table named NUTRIENTS, with the following specifications:</p> <table><tr><td>Column Name</td><td>Data Type</td><td>Key</td></tr><tr><td>Code</td><td>Numeric</td><td>Primary Key</td></tr><tr><td>FoodItemName</td><td>Varchar(20)</td><td></td></tr><tr><td>Calories</td><td>Numeric</td><td></td></tr><tr><td>ExpiryDate</td><td>Date</td><td></td></tr><tr><td>Price</td><td>Float(7,2)</td><td></td></tr></table> <p>II. Write SQL Query to insert the following data in the NUTRIENTS Table:- 1224, Britannia Cheese, 24 March 2025</p>	Column Name	Data Type	Key	Code	Numeric	Primary Key	FoodItemName	Varchar(20)		Calories	Numeric		ExpiryDate	Date		Price	Float(7,2)		(3)								
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FoodItemName	Varchar(20)																											
Calories	Numeric																											
ExpiryDate	Date																											
Price	Float(7,2)																											
32.	<p>(A) Consider the following tables:</p> <p>Table 1:</p> <p>Flights which stores FlightId, model and company</p> <p>Table 2:</p>	(3)																										

Booking which stores Ticket number(Ticketno), passenger name(passenger), source, destination, quantity, price and Flightid

Table: Flights

Flightid	model	company
10	747	Boeing
12	320	Airbus
15	767	Boeing

Table: Booking

Ticketno	passenger	source	destination	quantity	price	Flightid
10001	AJAY	BAN	DELHI	2	7000	10
10002	RIYA	BAN	KOLKATA	3	7500	12
10003	MOHAN	DEL	MUMBAI	1	6000	15
10004	RISHI	MUM	KOLKATA	2	5600	12
10005	VIJAY	MUM	DELHI	4	5000	10

Write appropriate SQL queries for the following:

- Write a query to count flights booking source wise.
- Increase 10% fare/price of those flight booking whose destination is Delhi
- Display Passenger name ,source along with the model and company details.

OR

(B). Consider the following tables:

Table 1:

Stationary , which stores stationary id (S_ID), Stationary Name(StationaryName), Company and Price

Table 2:

Consumer, which stores Consumer id (C_ID), Consumer_Name , Address and stationary id (S_ID)

Table:- Stationary

S_ID	StationaryName	Company	Price
DP01	Dot Pen	ABC	10
PL02	Pencil	XYZ	6
ER05	Eraser	XYZ	7
PL01	Pencil	CAM	5
GP02	Dot Pen	ABC	15

Table:- Consumer

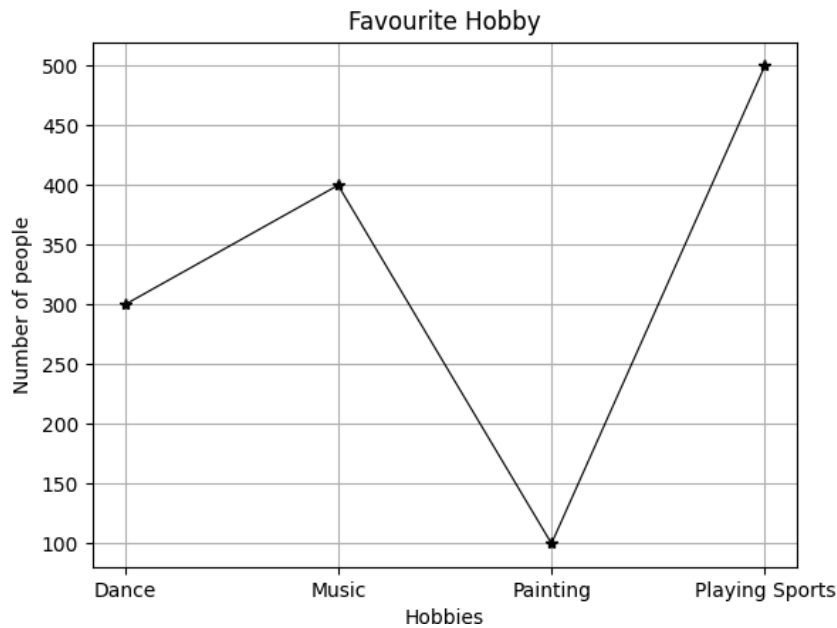
C_ID	Consumer_Name	Address	S_ID
1	Rajat	Delhi	PL01
6	Mohini	Mumbai	GP02
12	Ragini	Delhi	DP01
15	Anil	Delhi	PL02

Write appropriate SQL queries for the following:

- I. Display company wise average Price
- II. Display length of those consumer name who are residing in Mumbai
- III. Display the Company , stationaryname along with their consumer name

Section-D (2 x 4 = 8 Marks)

- | | | |
|-----|---|----------|
| 33. | <p>Write suitable Python code to create 'Favourite Hobby' Line graph as shown below:</p> <p>The data and specifications for creating the graph is:</p> <pre>Hobbies = ['Dance', 'Music', 'Painting' , 'Playing sports'] No of people = [300, 400, 100, 500] colour= green marker='*' line width = 0.5</pre> | (4
) |
|-----|---|----------|



Also give suitable python statement to save this chart with name HobbyLineGraph.png.

34. (A) Marketing team of the company Poorvika Ltd is maintaining a database for their company. This database includes table SALESMAN, details are shown below:

(4
)

Table : SALESMAN

Scode	Sname	Area	Qtysold	Dateofjoin
S001	Ravi	North	120	2015-10-01
S002	Sandeep	South	105	2012-08-01
S003	Sunil	NULL	68	2018-02-01
S004	Subh	West	280	2010-04-01
S005	Ankit	East	90	2018-10-01
S006	Raman	North	NULL	2019-12-01

Based on the given table SALESMAN, write SQL queries to perform the following operations:

- Display all the records in descending order of Sname.
- Display the average Qtysold from each area where number of salesman is less than 2
- Display the minimum Qtysold from each area.
- Count the total number of salesman.

OR

(B) With reference to the below given table SALESMAN, Predict output for the below given commands :

Table : SALESMAN

Scode	Sname	Area	Qtysold	Dateofjoin
S001	Ravi	North	120	2015-10-01
S002	Sandeep	South	105	2012-08-01
S003	Sunil	NULL	68	2018-02-01
S004	Subh	West	280	2010-04-01
S005	Ankit	East	90	2018-10-01
S006	Raman	North	NULL	2019-12-01

Write the output of the following SQL Queries.

(i) SELECT MIN(Qtysold), MAX(Qtysold) FROM SALESMAN;

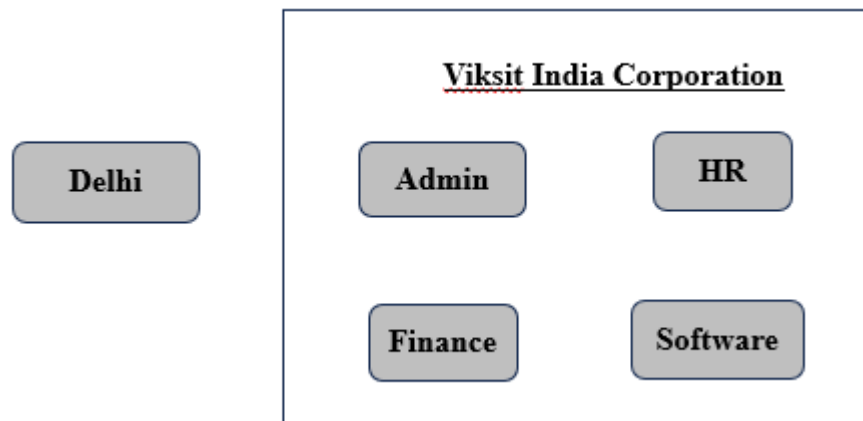
(ii) SELECT COUNT(Qtysold) FROM SALESMAN;

(iii) SELECT LENGTH(Sname) FROM SALESMAN WHERE MONTH(DateofJoin) < 10;

(iv) SELECT Sname FROM SALESMAN WHERE RIGHT(Scode,1) = 4;

Section-E (3 x 5 = 15 Marks)

35. Viksit India Corporation is a start up company. The company is planning to setup their offices in India with its hub at Bangalore with its 4 blocks namely ADMIN, HR, FINANCE and SOFTWARE. You as a network expert have to suggest the best network related solutions for their problems raised in (i) to (v), keeping in mind the distances between the buildings and other given parameters. (5)



Block to Block distance(in meters):

Block(From)	Block	Distance(in meter)
Admin	Finance	60
Admin	Software	80
Admin	HR	75

Finance	Software	110
Finance	HR	65
Software	HR	90

Expected number of Computers to be installed in each block:

Admin	40
Finance	35
Software	110
HR	55

The company is planning to form a network by joining these blocks.

I. Suggest an ideal layout for connecting these blocks/centers. Also suggest a suitable topology.

II What will be the most appropriate block where the company should plan to install their server?

III For cost cutting , the organization has opted for online meetings. Suggest the protocol that is used for sending the voice signals over internet. Also, give an example of an application that can be used for online meetings.

IV. Viksit India Corporation intends to link its Bangalore center to the head office in Delhi. Out of LAN, MAN, or WAN, what kind of network will be created? Justify your answer.

V. Suggest the placement of the following devices with proper justification:-

- (i) Switch/Hub
- (ii) Repeater

36. Haridev designed the Dataframe TempDF that contains the temperature of different Zone(Z1, Z2,Z3) as shown below. **Consider the given dataframe TempDF and write Python code for the following:** (5)

	City	Maxtemp
Z1	Delhi	40
Z2	Mumbai	31
Z3	Chennai	29

Write Python Statement to do the following :

a. Add a new column MinTemp with value 32,23, & 21 for Z1,Z2 & Z3 respectively

	<p>b. Add a new row Z4 with values “Bangalore”, 28 and 21 for City, Maxtemp and MinTemp respectively.</p> <p>c. Display only the rows Z1 and Z3 of the dataframe TempDF</p> <p>d. Change the Maxtemp of row Z2 to 39</p> <p>e. Save the content of dataframe to a CSV file “TempDFdata.CSV”</p>																																									
37.	<p>Write suitable SQL query for the following based on the table “SALESMAN”:</p> <table><tr><th>SNO</th><th>SNAME</th><th>SALARY</th><th>BONUS</th><th>DateofJoin</th></tr><tr><td>A01</td><td>Beena Mehta</td><td>30000</td><td>300.23</td><td>2019-10-29</td></tr><tr><td>A02</td><td>K L Sahay</td><td>50000</td><td>500.34</td><td>2018-03-12</td></tr><tr><td>B03</td><td>Nisha Thakkar</td><td>30000</td><td>400.00</td><td>2018-03-18</td></tr><tr><td>B04</td><td>Leela Yadav</td><td>80000</td><td>NULL</td><td>2018-12-31</td></tr><tr><td>C05</td><td>Goutam Singh</td><td>20000</td><td>NULL</td><td>1989-01-23</td></tr><tr><td>C06</td><td>Tripti Garg</td><td>70000</td><td>600.37</td><td>1987-06-15</td></tr><tr><td>D07</td><td>Neena Sharma</td><td>50000</td><td>550.89</td><td>1999-03-18</td></tr></table> <p>(i) Display the total salary of the salesman table.</p> <p>(ii) Display the last five characters of salesman names.</p> <p>(iii) Display the four characters from salesman name starting from second character.</p> <p>(iv) Display the month name for the date of join of salesman.</p> <p>(v) Display the name of the weekday for the date of join of salesman.</p> <p>OR</p> <p>Write suitable SQL query using MySql functions for the following:</p> <p>i. Display First 7 Characters of the String ‘APS KAMARAJ ROAD’.</p> <p>ii. Display the position of occurrence of string ‘RAJ’ in the string ‘APS KAMARAJ ROAD’.</p> <p>iii. Round off the value 4335.78 to two decimal place.</p> <p>iv. Display the remainder of 950 divided by 4.</p> <p>v. Remove all the expected leading and trailing spaces from a column BookName of the table ‘Library’. (Column Name : BookName, Table Name : Library)</p>	SNO	SNAME	SALARY	BONUS	DateofJoin	A01	Beena Mehta	30000	300.23	2019-10-29	A02	K L Sahay	50000	500.34	2018-03-12	B03	Nisha Thakkar	30000	400.00	2018-03-18	B04	Leela Yadav	80000	NULL	2018-12-31	C05	Goutam Singh	20000	NULL	1989-01-23	C06	Tripti Garg	70000	600.37	1987-06-15	D07	Neena Sharma	50000	550.89	1999-03-18	(5)
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