YESWECS

PRACTICE PAPER - 3

Std : XII(CBSE) Marks: 35

Date: 03.06.2022 COMPUTER SCIENCE Time: 2 hours.

General Instructions:

1. The question paper is divided into 3 Sections - A, B and C

- 2. Section A consist of 7 Questions (1-7). Each question carries 2 marks.
- 3. Section B consist of 3 Questions (8-10). Each question carries 3 marks.
- 4. Section C consist of 3 Questions (11-13). Each question carries 4 marks.
- 5. Internal choices have been given for question numbers 7, 8 and 12.

				Section-A	A			1
		Each question caries 2 marks						
Q.	Par		Question					
N	t							ks
0	No.							
1.		What are the	differences betwee	n Linear aı	nd Non-line	ar data struct	ure?	(2)
2.	(i)	Expand the f	ollowing:					(1)
		GSM , WiFi						
	(ii)	Arrange the f	following in descend	ding order.				(1)
		2Mbps , 10K	2Mbps, 10Kbps, 5Gbps, 1Tbps, 1000bps					
3.		Differentiate	Differentiate between Unique and Distinct keywords.					(2)
4.		(a) When we should use commit() in MySQL – Python connectivity?					(2)	
		(b) What are the functions used to retrieve data from result set?						
5.	Write output for queries (a) to (d) based on the tables Watches' and given below. Watches					nd Sale	(2)	
	Watchid Watch_Name Price Type Qty_Store							
W001 High Time 10000 Unisex 100					100			
		W002	Life Time	15000	Ladies	150		
		W003	Wave	20000	Gents	200		
		W004	High Fashion	7000	Unisex	250		
	W004 Golden Time 25000 Gents 100							

	Sale		
Watchid	Qty_Sold	Quarter	
W001	10	1	1
W003	5	1	1
W002	20	2	1
W003	10	2	1
W001	15	3	1
W002	20	3	1
W005	10	3	
W003	15	4	1
a. SELECT	MAX (PRIC	E), MIN(O7	- ΓΥ STORE) FR
	,	,	SOLD) FROM
BY QUAI	RTER;	, -	•
c. SELECT	WATCH NA	AME, PRIC	E, TYPE FROM
SALE S V	VHERE W. V	WATCH1D!	!=S.WATCHID

- ROM WATCHES;
- SALE GROUP
- M WATCHES W,
- d. SELECT WATCH NAME, QTYSTORE, SUM (QTY SOLD), QTY_STORESUM (QTYSOLD) "STOCK" FROM WATCHES W, SALE S WHERE W. WATCHID = S.WATCHID GROUP BY S.WATCHID;
- Which command is used to select the database? 6. (i) (1) (ii) What are the commands available in DCL? (1)

7. Consider the following tables CABHUB and CUSTOMER and answer the following questions:

Table: CABHUB

(2)

Vcode	VehicleName	Make	Colour	Capacity	Charges
100	Innova	Toyota	WHITE	7	15
102	SX4	Suzuki	BLUE	4	14
104	C Class	Mercedes	RED	4	35
105	A-Star	Suzuki	WHITE	3	14
108	Indigo	Tata	SILVER	3	12

Table: CUSTOMER

Ccode	Cname	Vcode
1	Hemant Sahu	101
2	Raj Lal	108
3	Feroza Shah	105
4	Ketan Dhal	104

- a. Identify the suitable field to made as Primary key of CABHUB table..
- b. What will be the degree and cardinality of CUSTOMER table?
 - a. Identify the candidate keys from the CABHUB table.

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		b. What is the d	egree and cardinality of	CABHUB table after adding					
		three records and deleting two attributes?							
		Section-B							
		Each question caries 3 marks							
					(0)				
8.		Write a function in	python, MakePush(Pa	ckage) and MakePop(Package)	(3)				
		to add a new Packa	ge and delete a Packag	ge from a List of Package					
		Description, consid	lering them to act as pu	ish and pop operations of the					
		Stack data structure	2						
			OR						
		details of employe the form of tuple in	e contain information Package and delete a dering them to act as J	age) and Pop(Package) to add (Empid, Ename and Salary) in Package from a List of Package push and pop operations of the					
9.	(i)	Deepika wants to remove all rows from the table BANK. But he needs to							
		maintain the structure of the table. Which command is used to imple							
		the same?							
	(ii)								
	(11)				(2)				
1		GRANT, SAVE POINT, ROLL BACK, REVOKE, COMMIT Swetha has to create a table named SCHOOL in the database to store							
0.		Swetha has to create a table named SCHOOL in the database to store the records of various students. The table SCHOOL has the							
		following structure:							
		Table: SCHOOL							
		FIELD NAME	DATA TYPE	REMARKS					
		ROLLNO	INTEGER	PRIMARY KEY					
		SNAME	CHAR(30)						
		AGE	INTEGER	DEFAULT 18					
		CLASSNAME	INTEGER	NOT NULL					
		ADDRESS	CHAR(30)						
		CITY	VACHAR(20)						
		Help her to complete the task by suggesting appropriate SQL commands.							
		Section-C							
			Each question carie	es 4 marks					
1		Comp.: 1 41 C.11	in the govern	I ADMINI 1 41	(4)				
1.		Consider the following tables SCHOOL and ADMIN and answer this							
		question :							

		Table : SCHOOL							
		CODE TEACHER NAME			SUE	JECT	DOJ	PERIODS +	1
		1001	Ravi Shankar		En,	glish	12/3/2000	24	
		1009	Priya Rai		Physics		03/09/1998	26	
		1203	Lisa Anand		En	glish	09/04/2000	27	
		1045	Yashraj		M	aths	24/08/2000	24	
		1123	Ganan		Physics 16/07/1999 28			28	
		1167	Harish B		Che	Chemistry 19/10/1999 27			
		1215	Umesh		Ph	ysics	11/05/1998	22	_
		Table: Admin							
		Code	Gender	Designal	tion				
		1001	Male	Vice Prin	cipla	1			
		1009	Female	Co-ordin	ator				
		1203	Female	Co-ordin	ator				
		1045	Male	HOD					
		1123	Male	Senior Te	acher				
		1167	Male	Senior Te	acher				
		1215	Male	HOD					
1	(i)	 Write SQL statements for the following: a. To display TEACHERNAME, PERIODS of all teachers whose periods are more than 25. b. To display all the information from the table SCHOOL in descending order of experience. c. To display DESIGNATION without dupli¬cate entries from the table ADMIN. d. To display TEACHERNAME, CODE and corresponding DESIGNATION from tables SCHOOL and ADMIN of Male teachers. Give two advantages and two disadvantages of Ring topology (2) 				(2)			
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	(1)	arve two	auvairiages a	and two di		rtages of R	King topology		(2)
		Define th	e following to	erms:	J				
			e , Website						
	(ii)		iate Switch a	nd Router	•				(2)
1	,	Vidva Se	enior Second	lary Publ	lic Sch	ool in N	ainital is sett	ing up the	(4)
3.		network		different	wings	. There	are 4 wings i	<u> </u>	

Distance between various wings are given below:

Wing A to Wing S	100 m
Wing A to Wing J	200 m
Wing A to Wing H	400 m
Wing S to Wing J	300 m
Wing S to Wing H	100 m
Wing J to Wing H	450 m

Wing	Number of Computers
Wing A	20
Wing S	150
Wing J	50
Wing H	25

- a. Suggest a suitable Topology for networking the computers of all wings.
- b. Name the most suitable wing where the Server should be installed. Justify your answer.
- c. Suggest where all should Hub(s)/Switch(es) be placed in the network.
- d. Which communication medium would you suggest to connect this school with its main branch in Delhi?

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