BCM SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA

CLASS XII: INFORMATICS PRACTICES (065)

ASSIGNMENT SOLUTION

1.	If column "salary" contains the data set (45000, 5000, 55000, 45000, 55000),	1
	what will be the output after the execution of the given query?	
	SELECT AVG (DISTINCT salary) FROM employee;	
	(A) 38500	
	(B) 40000	
	(C) 41000	
	(D) 35000	
	Ans: (D) 35000	
2.	The correct SQL from below to find the temperature in increasing order of all cities.	1
	(A) SELECT city FROM weather order by temperature;	
	(B) SELECT city, temperature FROM weather;	
	(C) SELECT city, temperature FROM weather ORDER BY temperature;	
	(D) SELECT city, temperature FROM weather ORDER BY city;	
	Ans: (D) SELECT city, temperature FROM weather ORDER BY city;	
3.	Where and Having clauses can be used interchangeably in SELECT queries?	1
	(A) True	
	(B) False	
	(C) Only in views	
	(D) With order by	
	ANS: (B) False	
4.	In SQL, this function returns the time at which the function executes:	1
	(A) SYSDATE	
	(B) NOW	
	(C) CURRENT	
	(D) TIME	
	ANS: (A) SYSDATE	
5.	What is the output of following:	1
	Select Round(19999.299,-1);	
	(A) 199999.3	
	(B) 20000.299	
	(C) 2000	
	(D) 20000	
	ANS: (iv) 1 mark for correct answer	
6.	Which one of the following is a string function?	1
	(A) COUNT()	
	(B) SUBSTR()	
	(C) MOD()	
	(D) MAX()	
	ANS: Answer (ii) SUBSTR(), 1 mark for correct answer	
7.	Which one of the following functions is used to count the no. of rows from the	1
	given table in MySQL?	
L	(A) COUNT(*)	

_		1
	(B) CARDINALITY()	
	(c) COUNT(Column name)	
	(D) All the above	
	Answer: (i) COUNT(*), 1 mark for correct answer	
8.	Which one of the following is an output for SQL statement given below:	1
	SELECT DAYNAME ('2022-12-07');	
	(A) MONDAY	
	(B) WEDNESDAY	
	(C) SATURDAY	
	(b) FRIDAY	
	ANS: WEDNESDAY, 1 mark for the correct answer	1
9.	If column "salary" of table employee contains the data set (2000,500, 4300,2000,	1
	500), what will be the output after execution of the following query.	
	SELECT COUNT(DISTINCT SALARY) FROM EMPLOYEE;	
	(A) 5	
	(B) 0	
	(C) 3	
	(D) 1	
	ANS: (C) 3	
10.	· ·	1
	command will gives the last 4 characters of the string as output?	
	(i). SELECT right("Preboard Exam 2023",4);	
	(ii). SELECT left("Preboard Exam 2023",4);	
	(iii). SELECT substr("Preboard Exam 2023",14,4);	
	(iv). SELECT substr("Preboard Exam 2023",15,4)	
	(A) option (i)	
	(B) option (i) and (iii)	
	(C) option (i) and (iv)	
	(D) option (ii)	
	ANS: (C) option (i) and (iv)	
	PART-B	
11.	Neelam, a database administrator needs to display Class wise total number of	2
	students of 'XI' and 'XII' house. She is encountering an error while executing the	
	following query:	
	SELECT CLASS, COUNT (*) FROM STUDENT	
	ORDER BY CLASS HAVING CLASS='XI' OR CLASS= 'XII';	
	Help her in identifying the reason of the error and write the correct query by	
	suggesting the possible correction (s).	
	ANS: The problem with the given SQL query is that ORDER BY is used whereas	
	GROUP BY must be used. To correct the error, GROUP BY clause should be used.	
	Corrected Query: (2) Page 2 of 4 KVS – Regional Office AGRA Session 2022-	
	23 SELECT CLASS, COUNT (*) FROM STUDENT GROUP BY CLASS	
	HAVING CLASS='XI' OR CLASS= 'XII'; 1 Mark for error identification 1 Mark	
	for writing correct query	
12.		2
	suitable example.	
	PART-C	
L		

13.	Write outputs for SQL queries (i) to (iii) which are based on the given table
	GAME

GID	NAME	DATEOFGAME	UNDER	WINNER
1	JUDO	2022-10-17	17	RAMESH
2	BADMINTON	2022-5-18	14	KIRTI
3	JUDO	2022-8-18	19	KAMAL
4	TAEKWONDO	2021-7-20	14	SADIQ
5	CHESS	2021-5-6	17	ALANKAR

- i) Select name, under, winner from GAME where month(dateofgame)>7;
- ii) Select lcase(mid(winner,2,3)) from GAME where NAME like "%O";
- iii) Select mod(under, month(dateofgame)) from GAME where NAME="JUDO";

ANS: i) name under winner judo 17 RAMESH judo 19 KAMAL

ii) lcase(mid(winner,2,3))

ame ama adi

iii) mod(under, month(dateofgame))

7 3

1 mark for each correct output

14. TABLE NAME : PHARMADB

DrugID	DrugName	Manufacture	Price	PharmacyName	Location
		Date			
5476	Amlodipine	2019-02-11	100.97	Rx Pharmacy	Delhi
2345	Paracetamol	2011-05-07	150.25	Raj Medicos	Haryana
1236	NebiStar	2021-06-02	160.27	MyChemist	Delhi
6512	VitaPlus	2019-03-01	150.81	MyChemist	Goa
5631	Levocitrezine	2018-04-12	110.23	RxPharmacy	Mumbai

Based on the above table "PHARMADB", Write outputs for SQL commands to i to iii:

- i. SELECT SUBSTR(DrugName ,5,4) FROM PHARMADB WHERE PRICE>160;
- ii. SELECT DRUGNAME FROM PHARMADB WHERE DAY(ManufactureDate)>10;
- iii. SELECT ROUND (Price, -1) FROM PURCHASE WHERE Location= 'Delhi'

ANS:

- i. Star
- ii. Amlodipine Levocitrezine
- iii. 100 200

3

3

		1 mark for e	anch corre	act output				
15.	Rasad on				uitabla SC	QL queries for the	a following:	3
13.	STOC		K given.	COMPANY	TYPE	DOPURCHASE	Quantity Quantity	3
	3100	Photosh	on	Adobe	SW	5-Oct-2022	Quantity	
	2	Windov	-	Microsoft	SW	15-Apr-2021	5	
	3	Mother		ASUS	HW	8-Sep-2022	5	
	4	Office 2		Microsoft	SW	8-Jul-2022	2	
	5	Hard Di		Seagate	HW	6-Feb-2021	10	
	6	Azure		Microsoft	SW	17-Jul-2022	6	
	7	CD RO	M	Seagate	HW	31-Jul-2021	5	
	8			Adobe	SW	28-Aug-2022	2	
	The state of the s	- •	-	se highest Quwest Quantity	•			
					•	dware type stock		
	_	he difference h the help of				and HAVING CL	AUSE in	
	i)	select COM		MAX(Quanti	ty) from	STOCK group by	ý	
	ii)	select YEAI year(DOPU	,	* 1	MIN(Qua	ntity) from STO	CK group by	
	iii)			ΓΥΡΕ) from ect statement		group by TYPE		
					OR example ¹	½ marks HAVIN	G CLAUSE	
	: Definition	on 1 marks +	- example	e ½ marks PART	<u></u>			
16	Write ani	table COL or	your for t					5
16.			naracters	he following extracted fro		aracter onwards f	rom string	3
	ii)	Display the GO to GOA		of occurrence	e of string	g 'GO' in the stri	ng "LET's	
	iii)	Round off th	ne value	257.75 to nea	arest ten 1	rupees.		
	iv)	Display the	remainde	er of 18 divid	led by 5.			
	· ·	Remove all table 'USEF		ng and trailir	ng spaces	from a column p	asswd of the	
					OR			
	Explain t	he following	SQL fur	nctions using	suitable	examples.		
		*	ONTHN.	AME()				
		ii) SU	JBSTRIN	NG ()				
		iii) L7	TRIM()					
			OUND()					
			GHT()					
	,	`		SIBLE', 3, 4]	•			
	,	`		to GOA", "	GO") ;			
		round(257.						
	iv) select	mod(18, 5)	;					

v) selec	t trim(passwd) from US	ER:						
· ·	for each correct query	,						
	1 0	O	R					
5 x ½ n	nark for each correct expla	unation						
	nark for each correct exam							
		PAR	RT-E					
7. Harsh,	Harsh, a movie information collector has designed a database for Indian movies.							
	m by writing answers of the		_					
MOVI	•							
movie	ID Name	Rating	Production	Collection	DORelease			
201	Nadiya Ke Par	A+	Rajshree	400	15-Aug-1989			
202	<u> </u>	A+	Dharma	1500	4-May-1992			
203		A	Yashraj	1100	25-Oct-2004			
204	Chandni	A+	Yashraj	2000	8-Nov-1989			
205	Om Shanti Om	Α	Red Chillies	2007	14-Nov-2007			
(i) (ii)	case (ii) Write a query to display all details of movies released in year 1989							
(iii)			on muco total	numbar of r	novios			
	1 0				novies			
	0	R (Optio	on for part ii	i only)				
ANS:	1 0	R (Optio	on for part ii	i only)				
ANS:	Write a query to count in Select upper(name), upp	R (Optional cating with the cating with the cating with the category) and the category and	on for part ii ise total numb luction) from	i only) oer of movie movie;	es			
	Write a query to count in Select upper(name), upper deduct ½ marks, if up	rating wing per(production per() is a	on for part ii ise total numb luction) from not used prop	i only) per of movie movie; erly means	es			
i)	Write a query to count in Select upper(name), upp	R (Optional control of the control o	on for part ii ise total numb luction) from not used prop	i only) per of movie movie; erly means	es			
i)	Write a query to count in Select upper(name), upp # deduct ½ marks, if up Select * from movie wh	R (Optional contents of the co	on for part ii ise total numb luction) from not used prop (DORelease)	i only) per of movie; movie; erly means =1989;	es separately			
i) ii)	Write a query to count in Select upper(name), upper deduct ½ marks, if up Select * from movie what is mark for each correct.	per(prod per() is a nere year query. t(name)	on for part ii ise total numb luction) from not used prop (DORelease) from movie g	i only) per of movie; movie; erly means =1989; group by pro	es separately			