

WORKSHEET WITH SOLUTION SQL (CS & IP)

	SQL (CS & IP)
1	What are DDL and DML? Give one command of each.
Ans.	DDL stands for Data Definition Language. DDL commands are used to manipulate the database objects like database, table, views etc. In simple words DDL commands are used to create table, changing the structure of table or dropping the table. Example: CREATE, ALTER & DROP
	DML stands for Data Manipulation Language. DML commands are used to manipulate the information stored in a table. Like adding new records, changing existing records or deleting the records. Example: INSERT, UPDATE & DELETE
2	Which command is used to add new column in existing table?
Ans.	ALTER TABLE
3	Which clause is used to search for NULL values in any column?
Ans.	IS NULL
4 Ans.	Which command is used to see information like name of columns, data type, size etc.? DESCRIBE OR DESC
5	Which clause is used for pattern matching? What are the 2 main characters used for matching the pattern?
Ans.	LIKE % (percent) and _ (underscore)
6	Which clause is used to see the output of query in ascending or descending order?
Ans.	ORDER BY
7	Which clause is used to eliminate the duplicate rows from output?
	DISTINCT
8	What is the minimum number of column required in MySQL to create table?
Ans.	ONE (1)
9	Which command is used to remove the table from database?
Ans.	DROP TABLE
10	Which command is used to add new record in table?
Ans.	INSERT INTO
11	Which option of ORDER BY clause is used to arrange the output in descending order?
Ans.	DESC
12	Which command is used to change the existing information of table?
Ans.	UPDATE THE TENTH OF THE TENTH O
13	Raj is a database programmer, He has to write the query from EMPLOYEE table to search for the employee whose name begins from letter 'R', for this he has written the query as: SELECT * FROM EMPLOYEE WHERE NAME='R%'; But the query is not producing the correct output, help Raj and correct the query so that he
	gets the desired output.
Ans.	SELECT * FROM EMPLOYEE WHERE NAME LIKE 'R%';
14	Raj is a database programmer, He has to write the query from EMPLOYEE table to search for
	the employee who are not getting any commission, for this he has written the query as: SELECT * FROM EMPLOYEE WHERE commission=null;
	But the query is not producing the correct output, help Raj and correct the query so that he gets the desired output.
Ans.	SELECT * FROM EMPLOYEE WHERE commission IS null;
15	Raj is a database programmer, has to write the query from EMPLOYEE table to search for the employee who are working in 'Sales' or 'IT' department, for this he has written the query as: SELECT * FROM EMPLOYEE WHERE department='Sales' or 'IT';
	But the query is not producing the correct output, help Raj and correct the query so that he
Ana	gets the desired output. SELECT * FROM EMPLOYEE WHERE department='Sales' or department= 'IT': OR
Ans.	SELECT * FROM EMPLOYEE WHERE department='Sales' or department= 'IT'; OR SELECT * FROM EMPLOYEE WHERE department IN ('Sales','IT')

16 Ans.	The following query	. 1 .			
Ans.	The following query is producing an error. Identify the error and also write the correct query. SELECT * FROM EMP ORDER BY NAME WHERE SALARY>=5000;				
			st clause in SQL QUERY, and in this query ORDER		
	BY is used before WHERE which is wrong, the correct query will be:				
			5000 ORDER BY NAME;		
17			,		
17		ins 5 records and Raj e	executed the following queries; find out the output		
	of both the query.				
	(i) Select 100+200 from dual;				
	\ /	0+200 from Sales;			
Ans.	(i) 300				
	(ii) 300				
	300				
	300				
	300				
	300				
18	What is the differen	ce between Equi-Join	and Natural Join?		
Ans.			mn from two tables and it will return matching		
			rs twice in output because we fetch using (*) not by		
	specifying column r				
			ame name for column to compare of both table		
			l return. In natural join column will appear only		
			st be same in both table if we are performing		
		he clause NATURAL JO			
19			ve the output of question (i) and (ii)		
19		TEACHER_NAME	DOJ		
		_			
	T001	ANAND	2001-01-30		
	T002	AMIT	2007-09-05		
	T003	ANKIT	2007-09-20		
	T004	BALBIR	2010-02-15		
	T005	JASBIR	2011-01-20		
	T005 T006	JASBIR KULBIR	2011-01-20 2008-07-11		
	T005 T006 (i) SELECT T	JASBIR KULBIR EACHER_NAME,DOJ FR	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
	T005 T006 (i) SELECT T	JASBIR KULBIR	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT *	JASBIR KULBIR EACHER_NAME,DOJ FR	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT *	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT *	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT * (i) TEACHER_NAME	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT * (i) TEACHER_NAME	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT * (i) TEACHER_NAME	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT * (i) TEACHER_NAME	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT * (i) TEACHER_NAME AMIT ANKIT BALBIR JASBIR	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT T (ii) SELECT * (i) TEACHER_NAME	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT TOUS SELE	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",		
Ans	T005 T006 (i) SELECT TOO SELECT	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I", E DOJ LIKE "%-09-";		
Ans	T005 T006 (i) SELECT TOO SELECT	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I",' E DOJ LIKE "%-09-",';		
Ans	T005 T006 (i) SELECT TOO SELECT	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I", E DOJ LIKE "%-09-%"; DOJ DOJ		
Ans	T005 T006 (i) SELECT TOUS SELECT TOUS SELECT * (ii) TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (iii) TEACHER_CODE T002	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%1", E DOJ LIKE "%-09-%"; DOJ		
	TO05 TO06 (i) SELECT TOOE (ii) SELECT * (i) TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (ii) TEACHER_CODE TO02 TO03	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I"' E DOJ LIKE "%-09-%"; DOJ 007-09-05 007-09-20		
20	TO05 TO06 (i) SELECT TOUS SEL	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE "%I"' E DOJ LIKE "%-09-%"; DOJ		
20 Ans.	T005 T006 (i) SELECT TOUS SELECT TOUS SELECT * (ii) TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (iii) TEACHER_CODE T002 T003 Which SQL function AVG()	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20 is used to get the ave	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE %I%' E DOJ LIKE %-09-%'; DOJ 007-09-05 007-09-20 rage value of any column?		
20 Ans. 21	TO05 TO06 (i) SELECT TOOS (ii) SELECT TOOS TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (ii) TEACHER_CODE TO02 TO03 Which SQL function AVG() What is the different	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20 is used to get the ave	DOJ DO7-09-05 007-09-20 rage value of any column?		
20 Ans.	TO05 TO06 (i) SELECT TOOS (ii) SELECT TOOS TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (ii) TEACHER_CODE TO02 TO03 Which SQL function AVG() What is the different	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20 is used to get the ave	2011-01-20 2008-07-11 OM TEACHER WHERE TEACHER_NAME LIKE %I%' E DOJ LIKE %-09-%'; DOJ 007-09-05 007-09-20 rage value of any column?		
20 Ans. 21	TO05 TO06 (i) SELECT TOOS (ii) SELECT TOOS TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (ii) TEACHER_CODE TO02 TO03 Which SQL function AVG() What is the different COUNT() function we	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20 is used to get the average of the second control of variable and the second control of variable count number of variable count	DOJ DOJ DO7-09-05 DO7-09-20 rage value of any column? and COUNT(*) function lues in any column excluding the NULLs		
20 Ans. 21 Ans.	TO05 TO06 (i) SELECT TOUS SELECT TOUS SELECT * (ii) TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (iii) TEACHER_CODE TO02 TO03 Which SQL function AVG() What is the different COUNT() function we COUNT(*) will counter	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20 is used to get the average of the average	DOJ DO7-09-05 007-09-20 rage value of any column?		
20 Ans. 21	TO05 TO06 (i) SELECT TOOS (ii) SELECT TOOS TEACHER_NAME AMIT ANKIT BALBIR JASBIR KULBIR (ii) TEACHER_CODE TO02 TO03 Which SQL function AVG() What is the different COUNT() function we	JASBIR KULBIR EACHER_NAME,DOJ FR FROM TEACHER WHER DOJ 2007-09-05 2007-09-20 2010-02-15 2011-01-20 2008-07-11 TEACHER_NAME AMIT 20 ANKIT 20 is used to get the ave ce between COUNT() a vill count number of var t number of rows in quant of SQL?	DOJ DOJ DO7-09-05 DO7-09-20 rage value of any column? md COUNT(*) function lues in any column excluding the NULLs		

23	Query to delete all record of table without deleting the table:		
	a. DELETE TABLE TABLE_NAME		
	b. DELETE FROM TABLE_NAME		
	c. DROP TABLE TABLE_NAME		
	d. DELETE TABLE FROM TABLE_NAME		
Ans.			
24	Identify the wrong statement about UPDATE command		
4	a. If WHERE clause is missing all the record in table will be updated		
	b. Only one record can be updated at a time using WHERE clause		
	c. Multiple records can be updated at a time using WHERE clause		
_	d. None of the above		
Ans.	V E		
25	Identify the correct statement(s) to drop a column from table		
	a. DELETE COLUMN COLUMN_NAME		
	b. DROP COLUMN_NAME		
	c. ALTER TABLE TABLE_NAME DROP COLUMN COLUMN_NAME		
	d. ALTER TABLE TABLE_NAME DROP COLUMN_NAME		
Ans.	c. ALTER TABLE TABLE NAME DROP COLUMN COLUMN NAME		
	d. ALTER TABLE TABLE NAME DROP COLUMN NAME		
26	Suppose a table BOOK contain columns (BNO, BNAME, AUTHOR, PUBLISHER), Raj is		
	assigned a task to see the list of publishers, when he executed the query as:		
	SELECT PUBLISHER FROM BOOK;		
	He noticed that the same publisher name is repeated in query output. What could be possible		
	solution to get publisher name uniquely? Rewrite the following query to fetch unique		
	publisher names from table.		
Ans.			
07	Correct Query: SELECT DISTINCT PUBLISHER FROM BOOK;		
27	HOTS		
	Consider a database table T containing two columns X and Y each of type integer. After the		
	creation of the table, one record (X=1, Y=1) is inserted in the table.		
	Let MX and MY denote the respective maximum values of X and Y among all records in th		
	table at any point in time. Using MX and MY, new records are inserted in the table 128 time		
	with X and Y values being MX+1, 2*MY+1 respectively. It may be noted that each time after		
	the insertion, values of MX and MY change. What will be the output of the following SQL		
	query after the steps mentioned above are carried out?		
	SELECT Y FROM T WHERE X = 7		
	A. 127		
	B. 255		
	C. 129		
	D. 257		
Ans.	A. 127		
28	Which SQL function is used to find the highest and lowest value of numeric and date type		
	column?		
Ans.	MAX() and MIN()		
29	What is the default order of sorting using ORDER BY?		
Ans.			
30	What is the difference between CHAR and VARCHAR?		
Ans.			
1110.	will occupy 20 bytes for each name irrespective of actual data.		
	VARCHAR is variable length data type i.e. it will occupy size according the actual length of		
	data		

31	Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to (viii) which are based on tables
	TARLE · ACCOUNT

ANO	ANAME	ADDRESS
101	Nirja Singh	Bangalore
102	Rohan Gupta	Chennai
103	Ali Reza	Hyderabad
104	Rishabh Jain	Chennai
105	Simran Kaur	Chandigarh

TABLE: TRANSACT

TRNO	ANO	AMOUNT	TYPE	DOT
T001	101	2500	Withdraw	2017-12-21
T002	103	3000	Deposit	2017-06-01
T003	102	2000	Withdraw	2017-05-12
T004	103	1000	Deposit	2017-10-22
T005	102	12000	Deposit	2017-11-06

- (i) To display details of all transactions of TYPE Withdraw from TRANSACT table
- (ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT
- (iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102
- (iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000
- (v) SELECT ANO, ANAME FROM ACCOUNT WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE');
- (vi) SELECT DISTINCT ANO FROM TRANSACT
- (vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT GROUP BY ANO HAVING COUNT(*)> 1
- (viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT WHERE DOT <= '2017-10-01'

Ans. (i) Select * from TRANSACT where TYPE='Withdraw';

- (ii) Select ANO, AMOUNT from TRANSACT where DOT like '%-05-%';
- (iii) Select MIN(DOT) from TRANSACT where ANO=102
- (iv) Select ANO,T.ANO,ANAME,AMOUNT from ACCOUNT A, TRANSACT T where A.ANO = T.ANO and AMOUNT<=3000;

(v)

ANO	ANAME
103	Ali Reza
105	Simran Kaur

(vi)

ANO

101 103

102

(vii)	ANO	COUNT(*)	MIN(AMOUNT)
	102	2	2000
	103	2	3000

(viii) COUNT(*) SUM(AMOUNT)

2 5000

						for mo	re details visit : pyth	non4csip.com
32	32 Consider the following tables EMP and SALGRADE, write the query for (i) to (vi) and output							
	for (vii) to (x)					•		
	TABLE: EMPLOYEE					,		
	ECODE	NAME	DESIG	•	SGRADE		DOB	.
	101	Vikrant	Execut		S03	2003-03-23	1980-01-13	
	102	Ravi	Head-I'		S02	2010-02-12	1987-07-22	
	103	John Cena	Recepti	onist	S03	2009-06-24	1983-02-24	.
	105 108	Azhar Ansa Priyam Sen			S02 S01	2009-08-11 2004-12-29	1984-03-03 1982-01-19	-
			CEO		301	2004-12-29	1902-01-19	J
		SALGRADE	***	1				
	SGRADI		HRA					
	S01	56000	18000					
	S02	32000	12000					
	S03	24000	8000]		1:	.i. DO I	
	(i)	To display NA	ans of an e	mployed	e in descend	ding order of th	eir DOJ e sgrade is eithe	or 'SOO' or
	(ii)	'S03'	ME AND I	JESIG (oi those en	ipioyees whose	e sgrade is eithe	31 SUZ OF
	(iii)		ME. DESIG	. SGRA	DE of those	e emplovee who	joined in the ye	ear 2009
	(iv)	To display a						
		1 2	all SGRADE, ANNUAL_SALARY from table SALGRADE [where ARY = SALARY*12]					· ·
	(v)		nber of employee working in each SALGRADE from table EMPLOYE					
	(vi)		ME, DESIG, SALARY, HRA from tables EMPLOYEE and SALGRAI			ALGRADE		
			ARY is less than 50000					
	(vii)		lect MIN(DOJ), MAX(DOB) from employee;					
	(viii)		elect SGrade,Salary+HRA from SalGrade where Sgrade='S02' elect count(distinct sgrade) from employee					
	(ix)	,	_	,				
Ans	(x)	Select sum(sal						
Alls	(i) (ii)						DE IN ('S02','S03	'n
	(11)	OR	E,DESIG F		WII LOTTE (WILEKE SCICAL	7E IN (502,503	,
		SELECT NAME, DESIG FROM EMPLOYEE WHERE SGRADE='S02' OR						
		SGRADE='S03'						
	(iii)	SELECT NAME, DESIG, SGRADE FROM EMPLOYEE WHERE DOJ LIKE '2009%'						
	(iv)	SELECT SGRADE, SALARY*12 ANNUAL SALARY FROM SALGRADE						
	(v)	SELECT SGRA	ELECT SGRADE, COUNT(*) FROM EMPLOYEE GROUP BY SGRADE					
	(vi)	SELECT NAM	E,DESIG,S	ALARY,	HRA FROM	EMPLOYEE E	SALGRADE S W	VHERE
		E.SGRADE=S.			LARY<=500	000		
	(vii)	MIN(DOJ)	MAX(DC	B)				
		2003-03-23	1987 ₋ 07	-22				
	(viii)							
	()	WIII		_				

44000

SUM(SALARY) AVG(SALARY)

37333.33

112000

S02

COUNT(*)

(ix)

(x)

Write SQL queries for (i) to (iv) and write outputs for SQL queries (v) to (viii), which are based on the table given below:

Table: TRAINS

TNO	TNAME	START	END
11096	Ahimsa Express	Pune Junction	Ahmedabad Junction
12015	Ajmer Shatabdi	New Delhi	Ajmer Junction
1651	Pune Hbj Special	Pune Junction	Habibganj
1 3005	Amritsar Mail	Howrah Junction	Amritsar Junction
12002	Bhopal Shatabdi	New Delhi	Habibganj
12417	Prayag Raj Express	Allahabad Junction	New Delhi
14673	Shaheed Express	Jaynagar	Amritsar Junction
12314	Sealdah Rajdhani	New Delhi	Sealdah
12498	Shane Punjab	Amritsar Junction	New Delhi
12451	Shram Shakti Express	Kanpur Central	New Delhi
12030	Swarna Shatabdi	Amritsar Junction	New Delhi

Table: PASSENGERS

PNR	TNO	PNAME	GENDER	AGE	TRAVELDATE
P001	13005	R N AGRAWAL	MALE	45	2018-12-25
P002	12015	P TIWARY	MALE	28	2018-11-10
P003	12015	S TIWARY	FEMALE	22	2018-11-10
P004	12030	S K SAXENA	MALE	42	2018-10-12
P005	12030	S SAXENA	FEMALE	35	2018-10-12
P006	12030	P SAXENA	FEMALE	12	2018-10-12
P007	13005	N S SINGH	MALE	52	2018-05-09
P008	12030	J K SHARMA	MALE	65	2018-05-09
P009	12030	R SHARMA	FEMALE	58	2018-05-09

- (i) To display details of all Trains which starts from New Delhi
- (ii) To display PNR, PNAME, GENDER and AGE of all passengers whose AGE is below 50
- (iii) To display total numbers of MALE and FEMALE passengers
- (iv) To display records of all passengers travelling in trains whose TNO is 12015
- (v) SELECT MAX(TRAVELDATE), MIN(TRAVELDATE) FROM PASSENGERS WHERE GENDER='FEMALE';
- (vi) SELECT END, COUNT(*) FROM TRAINS GROUP BY END HAVING COUNT(*)>1;
- (vii) SELECT DISTINCT TRAVELDATE FROM PASSENGERS;
- (viii) SELECT TNAME, PNAME FROM TRAINS T, PASSENGERS P WHERE T.TNO=P.TNO AND AGE BETWEEN 50 AND 60

_	A	443				
	Ans	(i)	SELECT * FROM TRAINS WHERE START='NEW DELHI'			
		(ii)	SELECT PNR,PNAME,GENDER,AGE FROM PASSENGER WHERE AGE<50			
		(iii)	SELECT GENDER,COUNT(*) FROM PASSENGERS GROUP BY GENDER			
		(iv)	SELECT * FROM PASSENGERS WHERE TNO=12015 MAX(TRAVELDATE) MIN(TRAVELDATE)			
		(v)	MAX(TRAVELDA		AVELDATE)	
			2018-11-10		.09	
		(vi)	END			
		(,			, 	
			HABIBGANJ	2		
			AMRITSAR JUNG	CTION 2		
			NEW DELHI	4		
		(vii)	TRAVELDATE			
			2010 12 25			
			2018-12-25 2018-11-10			
			2018-11-10			
			2018-10-12			
		(viii)			ME	
		(*****)				
		AJMER SHATABDI		DI P TI\	VARY	
				VARY		
			AMRITSAR MAII			
			AMRITSAR MAII			
			SWARNA SHATA		AXENA	
			SWARNA SHATA		XENA	
			SWARNA SHATA		HARMA	
_	0.4	0 11	SWARNA SHATA			
	34	(vi) to (x		PE and ACC.	ESSORIES, write the query for (i) to (v) and output for	
		. , , ,	SHOPPE			
					1	
		Id	SName	Area		
		S01	ABC Computronics	CP		
		S02	All Infotech Media	GK II		
		S03	Tech Shoppe	CP		
		S04	Geeks Tecno Soft	Nehru Place		
		S05	Hitech Tech Store	Nehru Place		
L		<u> </u>				

				for more details visit : python4csip.com
Tabl	e : ACCESSORIES			
No	Name	Price	Id	
A01	Mother Board	12000	S01	
A02	Hard Disk	5000	S01	
A03	Keyboard	500	S02	
A04	Mouse	300	S01	
A05	Mother Board	13000	S02	
A06	Keyboard	400	S03	
A07	LCD	6000	S04	
T08	LCD	5500	S05	
T09	Mouse	350	S05	
T10	Hard Disk	4500	S03	
(i) (ii) (iii)	To display Id an	nd Sname o	f all the S	e Accessories in descending order of their Price Shoppe location in 'Nehru Place' Maximum Price of each Name from ACCESSORIES
(iv) (v)	and ACCESSOR	RIES where	Price is 5	sories and their respective SName from table SHOPPE 5000 or more. where name contains word 'Board';
(vi)	SELECT DISTIN	ICT NAME	FROM AC	CCESSORIES WHERE PRICE>5000;

SELECT * FROM SHOPPE S, ACCESSORIES A WHERE S.ID = A.ID AND PRICE>=10000; SELECT NAME.PRICE FROM ACCESSORIES ORDER BY PRICE DESC (i) Ans

(vii) SELECT AREA, COUNT(*) FROM SHOPPE GROUP BY AREA;

- (iii) SELECT NAME, MIN(PRICE), MAX(PRICE) FROM ACCESSORIES GROUP BY NAME
- SELECT NAME, PRICE, SNAME FROM SHOPPE S, ACCESSORIES A WHERE (iv) S.ID=A.ID AND PRICE>=5000

SELECT ID, SNAME FROM SHOPPE WHERE AREA='NEHRU PLACE'

(viii) SELECT AVG(PRICE), MAX(PRICE) FROM ACCESSORIES WHERE PRICE>=10000; (ix) SELECT NAME, PRICE*.05 DISCOUNT FROM ACCESSORIES WHERE ID IN ('S02','S03')

- SELECT * FROM ACCESSORIES WHERE NAME LIKE '%BOARD%' (v)
- (vi) NAME

(ii)

Mother Board

AREA

LCD

(vii) COUNT(*) CP 2 GK II 1 Nehru Place 2

(viii) AVG(PRICE) MAX(PRICE)

12500 13000 (ix) NAME DISCOUNT Keyboard 25

Mother Board 650 Keyboard 20 Hard Disk 225

(x)SNAME **AREA** NO NAME PRICE ID CP S01 ABC Computronics A01 Mother board 12000 S01 S02 All Infotech media Mother board GK II A05 13000 S02

35	· •		ere are two	tables : `	Write MYS(2L qu	eries for ((i) to (iii)			
	Table : Ite	,			T .					۱	
	ICode	IName			Price	Col		VCoc	le		
	S001	Mobile 1			30000	Silv		P01			
	S002	Refriger	ator		20000	Che		P02			
	S003	TV	3.6 1.		45000	Bla		P03			
	S004	_	g Machine		12000	Wh		P04			
	S005 Table : Ve	Air Conditioner			50000	Wh	ıte	P05]	
	VCode	11001	VNome								
				VName							
	P01		Rahul								
	P02		Mukesh								
	P03		Rohan								
	P04		Kapil								
			IName and V						_	or".	
	` '	•	e, ICode, VNa	-	•	-		-			
Δ			ne and IName							1 1	
Ans	• •		Code, IName, Refrigerator'	vname	irom item .	ı,ven	aor v wn	ere 1.vco	ae=v.vCo	ae ana	
			lame, ICode,	VName	from Item	I.Ven	dor V who	ere I.Vco	de=V.VCo	de and	
	, ,	Price>=2		VIIIII .	iioiii icoiii .	-, v C11	401 V W11	010 1.100	4.100	uc unu	
			/Name,IName	e from	Item I,Ve	ndor	V wher	e I.Vco	le=V.VCod	le and	
		I.VCode=			·						
			output of the	e following	ng-						
			449.58,-2);						IP ON	IIV	
	2. Select			2.0).					IF ON		
			Hello Rahul", onth("2020-10								
And	1. 1400	Dayonno	mui(2020-10	-24 J,							
mia	2. 7.579										
	3. elloh I	Rah									
	4. 24										
36	In a datab	ase there	are two table	es : Write	e MYSQL qu	eries i	for (i) to (v	ri)			
	Table : Do	ctors									
	DocID	DocNan	ne		Departmen	nt	NoofOpd	lDays			
	101	J K Mis	hra	ra			3				
	102	Mahesh	tripathi		ENT		4				
	103	Ravi Ku	ımar		Neuro		5				
	104	Mukesh	ı Jain		Physio		3				
	Table: Pa	tients					1				
	PatNo		PatName		Department		DocId				
	1		Payal	I	ENT		102				
	2		Naveen (Ortho		101				
	3		Rakesh	1	Neuro		103				
	4		Atul	F	Physio		104				
	(i) To disp	olay PatNo	o, PatName aı	nd corres	sponding Do	cNam	e for each	patient.			
	(ii) To dis	play the l	ist of all docto	ors whos	se NoofOpdD	ays a	re more th	nan 3			
			Name, Depar	tment,Pa	atName and	DocId	l from bot	h the tab	oles where	DocID	
	is either			. •	,	ъ .	,				
	(1v) To dis	splay tota	l no of differe	nt depar	tments from	Patie	nts table.				

Ans.	(i)	select P.Doo	•	me,DocName	from Doctors I	D,Patients P v	where D.DocID =
	(ii)	select	* from Doctors	s where NoofOp	odDays>3		
	(iii)			•	-	m Doctor D,	Patient P where
	<i>(</i> •)		eId = P.DocId a	•	, ,		
0.77	(iv)		count(distinct			•	
37			e "BANK" with :	records, Give the	he output of give	en queries –	
	NAME		4				
	SACH RAME		+				
	DINES		=				
	VIKAA		+				
	RAJU						
	AMRI'	ГЕSH					
	i.	Select *	from BANK wh	ere Name Like	"%ES%";		
	ii.	Select *	from BANK wh	ere Name Like	' SH'		
Ans		RAMESI					
		DINESH					
		AMRITE					
		RAMESI DINESH					
38				at StoreIndia	wants to search	the record of	those employees
	whose	name st	tarts from 'R' a	and they have	not allotted any	project, for the	is he has written
	the foll	owing q	aery-				
	Select	* from 1	Employee whe	ere Name = 'R'	%' and Project=	Null;	
	But the	query	is not produci	ng the correct	output. Rewrite	e the query aft	er correcting the
	errors						
Ans	Select 3	* from E	mployee where	Name like 'R%	o' and Project is 1	null	
39		Ŭ		•	query for (i) to (iv	, -	or (v) to (viii)
	Visito	rID	VisitorName	Gender	ComingFrom	AmountPaid	
	1		Suman	F	Kanpur	2500	
	2		Indu	F	Lucknow	3000	
	3		Rachana	F	Haryana	2000	
	5		Vikram	M M	Kanpur	4000	_
	6		Rajesh Suresh	M	Kanpur Allahabad	3000 3600	
	7		Dinesh	M	Lucknow	3000	_
	8		Shikha	F	Varanasi	5000	
		Write a		ay VisitorName			ale Visitors with
		Amount	Paid more than	n 3000			
	` '		- ' - '	,	om location uniq	uely	
	(iii)		query to insert ilpa','F','Luckn		alues-		
		Write a	query to disp		of visitors in o	rder of their A	AmountPaid from
		_	to lowest isitorName fron	n Visitor where	Gender-'M'		
	` '				where VisitorID=	6:	
	` '						
	(vii)	Select S	um(AmountPai	d) from Visitor	where comingFr	om='Kanpur':	
					where comingFr or where Amount		

Ans. (i) Select VisitorName,ComingFrom from Visitor where Gender="F" and AmountPaid>3000 (ii) Select distinct ComingFrom from Visitor insert into visitor values(7, Shilpa, F", Lucknow', 3000) (iv) Select * from visitor order by AmountPaid desc (v) VisitorName Vikram Rajesh Suresh Dinesh (vi) AmountPaid+200 (vii) Sum(AmountPaid) Sum(AmountPaid) 9500 (viii) Sum(AmountPaid) 9500 (viii) Count(VisitorName)	Δης	(i)	Soloot VisitorN	omo ComingErom	from	Vigitor	Tyboro	Gender='F'	and
(ii) Select distinct ComingiFrom from Visitor (iii) insert into visitor values(7, Shiplay, 7°, Laucknow', 3000) (iv) Select * from visitor order by AmountPaid desc (v) VisitorName Vikram Rajesh Suresh Dinesh (vi) AmountPaid+200 3300 (vii) Sum(AmountPaid) 9500 (viii) Count(VisitorName) 1 40 Write a MySQL query to create the given table (MEMBER) Column name Datatype Size ID Column name Datatype Size ID DoJ Date Ans. Create table member(id change) Ans. In the Difference between ALTER Table command and UPDATE command? Ans. ALTER is DDL command and is used for modifying the schema of table like adding new column, modifying column definition, dropping column. UPDATE is DML command and is used for modifying the existing data of table like changing the mobile number, changing the salary etc. 42 (i) Sanjay was deleting the record of empno=1234, but at the time of execution of command he forgot to add condition empno=1234, what will be the effect of delete command in this case? (ii) Sameer is executing the query to fetch the records of employee who are getting salary between 4000 to 8000, he executed the query as - Sclect * from employee where salary between 4000 to 8000; But he is not getting the correct output, Rewrite the correct query. Ans. (i) If where clause is missing with DELETE then it will delete all the record of table. (ii) Select * from employee where salary between 40000 and 80000 43 Write MYSQL command to see the list of tables in current database Ans. Show tables 44 Show tables 45 A table Employee contains 5 Rows and 4 Columns and another table PROJECT contains 5 Rows and 3 Columns. How many rows and columns will be there if we obtain Cartesian product of these two tables? Ans. Rows = 5 x 5 = 25 Columns = 4 + 3 = 7 46 Raject created a table named student, He wants to see those students whose name ending with p, He wrote a query- SELECT * FROM student WHERER Rame="py8.6"; But the query is not producing the desired output, Help Ranject to run the query by removing	Ans.	(i)		, .	110111	Visitor	where	Gender- F	and
(ii) in insert into visitor values (7, Shilpa, 1, F., Lucknow, 3000) (iv) Select * from visitor order by AmountPaid desc Vistram Rajesh Suresh Diniesh (vi) AmountPaid*200 3800 (vii) Sum(AmountPaid) 9500 (viii) Count(VisitorName)		(ji)			or				
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Vikram Rajesh Suresh Dinesh (vi) AmountPaid+200		` '		or order by immodiffi	ara act				
Rajesh Suresh Dinesh (vi) AmountPaid+200 3800 (vii) Sum(AmountPaid) 9500 (viii) Count(VisitorName) 1 40 Write a MySQL query to create the given table (MEMBER) Column name Datatype Size ID Column name Varchar 30 Fee Int 10 DOJ Date Ans. create table member(id char(6),name varchar(30),fee int(10),doj date) 41 What is the Difference between ALTER Table command and UPDATE command? Ans. ALTER is DDL command and is used for modifying the schema of table like adding new column, modifying column definition, dropping column. UPDATE is DML command and is used for modifying the existing data of table like changing the mobile number, changing the salary etc. 42 (i) Sanjay was deleting the record of empo=1234, but at the time of execution of command he forgot to add condition empn=1234, what will be the effect of delete command in this case? (ii) Sameer is executing the query to fetch the records of employee who are getting salary between 4000 to 8000, he executed the query as Select * from employee where salary between 4000 to 8000; But he is not getting the correct output, Rewrite the correct query. Ans. (i) If where clause is missing with DELETE then it will delete all the record of table. (ii) Select * from employee where salary between 40000 and 80000 43 Write MYSQL command to see the list of tables in current database Show tables 44. Suni decides to delete a PhoneNo column from a MySQL Table (student) after insert the data into the table. Write the command to delete that particular column in student table. Ans. ALTER TABLE student drop PhoneNo 45 A table Employee contains 5 Rows and 4 Columns and another table PROJECT contains 5 Rows and 3 Columns. How many rows and columns will be there if we obtain Cartesian product of these two tables? Ans. Rows = 5 x 5 = 25 Columns + 4 3 = 7 Ranjeet created a table named student, He wants to see those students whose name ending with p. He wrote a query. SELECT * FROM student WHERE name=*p%*; But the query is not producing the desired output, Help Ranjeet									
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Ans. (i) If where clause is missing with DELETE then it will delete all the record of table. (ii) Select * from employee where salary between 4000 to 8000; But he is not getting the correct output, Rewrite the correct query. (ii) Select * from employee where salary between 4000 to 80000 Write MYSQL command to see the list of tables in current database Ans. (i) If where clause is missing with DELETE then it will delete all the record of table. (ii) South the table. (iii) South the command to see those students and and south the table. (iii) South the table. (iii) South the command the forgot to add command the forgot to add condition empno=1234, what will be the effect of delete command in this case? (iii) South the salary between 4000 to 8000, he executed the query as Select * from employee where salary between 4000 to 8000; But he is not getting the correct output, Rewrite the correct query. (iii) Select * from employee where salary between 4000 to 80000 (iv)		(****)		 , 					
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Write a MySQL query to create the given table (MEMBER) Column name		(viii)	Count(VisitorNat	me)					
Write a MySQL query to create the given table (MEMBER) Column name									
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ID	40							1	
Name Varchar 30 Fee Int 10 Dote			umn name	**		ze			
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	3	VIJAY	Z .	HR	28000	2	2000		
	4	NITIN		SALES	18000		3000		
	5 VIKRAM			SALES	22000		1700		
	 (i) To display the name of employees starting from 'V' in ascending order of their salary To display the details of all SALES dept employee who are earning salary more than 20000 (iii) To count distinct department from the table (iv) Change the salary of NITIN from 18000 to 20000 (v) To insert a new row in the table Employee								
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Ans. 1. Select Name,Subject,Advisor from Student S,Guide G where S.subject = G.subject; 2. Select Name,Advisor from Student S,Guide G where S.subject = G.subject and S.subject in (Physics',Chemistry') 1. HAVING AND WHERE 2. % AND _										
S.subject in ('Physics','Chemistry') DIFFERENCE BETWEEN 1. HAVING AND WHERE 2. % AND _ 3. CHAR AND VARCHAR Ans. (1) HAVING - this clause is used with GROUP BY to filter the group of records. We can use aggregate functions with HAVING. WHERE - this clause is used to apply condition on all the rows of table. We cannot use aggregate functions with WHERE. (2) % is a wildcard character used with LIKE and it is used for substituting multiple characters while matching the pattern. Matching text can be of any length _ (underscore) is also a wildcard character used with LIKE but it substitute only single character at given position while matching the pattern. Length will be fixed. (3) Refer to Answer no. 30 OUTPUT - a. Select Substring('mysql application',3,3) b. Select instr('mysql application','p'); c. Select round(7756.452,1); d. Select round(59999.99,-2); e. Select right('mysql application',3); Ans. a. sql b. 8 c. 7756.5 d. 60000	Ans.	, , , , , , , , , , , , , , , , , , , ,								
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