

#### Simple Queries in SQL Chapter - 14

#### Type A: Very Short Answer Questions

-	Type A: Very Short A									
1	Maximum how many characters can be stored in a (i) text literal (ii) numeric literal?									
Ans.	In MySQL 5.1 text literal can store maximum of 4000 bytes and in numeric literal maximum of 53 digits of percision									
	can store. But in newer version of MySQL this figure is incr	reased.								
2	What is a datatype? Name some datatype available in MySQL.									
Ans.	Datatypes are means to identify the type of data and associated operations for handling. A value's datatype									
	associated a fixed set of properties with the value. In MySQL there various datatypes for example – int, decimal,									
	char, varchar, date etc.									
3	What are fixed length fields? What are variable length fields?									
Ans.	Fixed length fields – fields whose length (maximum number of data) is fixed and occupy the maximum number of									
	length even if maximum number of data is not filled in field.									
	Variable length fields – here every data element in the field is determined separately and the number of characters									
	in data element becomes its field length. It does not occupy the maximum number of length if number of data is less									
	than the maximum length.									
4	Compare Char and Varchar datatypes?									
Ans.	CHAR	VARCHAR								
	Fixed length datatype	Variable length datatype								
	If a value is shorter than the length then blanks are	If the values is shorter than the length then no blanks								
	added, but the size of value remains same.	are added and values stored exactly of its length.								
5	What is null value in MySQL database? Can you use nulls									
Ans.	If a column in a row has no value, then column is said to be null, or contain a null. Yes we can use null in arithmetic									
	expression but it should be avoid from use.									
6	Which keyword eliminates the redundant data from a qu	iery result?								
Ans.	DISTINCT keyword									
7	Which keyword retains duplicate output rows in a query	result?								
Ans.	ALL keyword									
8	How would you display system date as the result of a que	ery?								
Ans.	SELECT CURDATE();									
9	How would you calculate 13 * 15 in SQL?									
Ans.	SELECT 13 * 15;									
10	Which function is used to substitute NULL values in a que									
Ans.	IFNULL() function is used to substitute NULL value, for eg.									
	SELECT FnamelFNULL(Lname,"not mentioned"), birth fron									
	This query will substitute all NULL rows of column Lname	-								
11	Which operator concatenates two strings in a query resu	lt?								
Ans.	By using "" we can concatenate two string for eg.									
	SELECT "Fname Lname";									
12	Which comparison operator is used for comparing									
	(i) patterns (ii) character values (iii) null values (i	v) ranges (v) list of values								
Ans.	(i) patterns – % , _									
	(ii) character values – LIKE, =									
	(iii) null values – IS NULL									
	(iv) ranges - <, <=, >, >=, BETWEEN									
	(v) list if values – IN , NOT IN									
	(v) list if values – IN , NOT IN									

#### Type B: Short Answer Questions

Consider table *Empl* given in solved problem and answer the following questions

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many characters can be stored in a (i) text literal (ii) numeric literal? Ans. In MySQL 5.1 text literal can store maximum of 4000 bytes and in numeric literal maximum of 53 digits of percision

can store. But in newer version of MySQL this figure is increased. 2 What is a datatype? Name some datatype available in MySQL. Ans. Datatypes are means to identify the type of data and associated operations for handling. A value's datatype

associated a fixed set of properties with the value. In MySQL there various datatypes for example – int, decimal, char, varchar, date etc. 3 What are fixed length fields? What are variable length fields? Ans. Fixed length fields – fields whose length (maximum number of data) is fixed and occupy the maximum number of

length even if maximum number of data is not filled in field. Variable length fields – here every data element in the field is determined separately and the number of characters in data element becomes its field length. It does not occupy the maximum number of length if number of data is less than the maximum length. 4 Compare Char and Varchar datatypes? Ans. CHAR VARCHAR Fixed length datatype Variable length datatype If a value is shorter than the length then blanks are added, but the size of value remains same.

If the values is shorter than the length then no blanks are added and values stored exactly of its length. 5 What is null value in MySQL database? Can you use nulls in arithmetic expressions? Ans. If a column in a row has no value, then column is said to be null, or contain a null. Yes we can use null in arithmetic

expression but it should be avoid from use. 6 Which keyword eliminates the redundant data from a query result? Ans. DISTINCT keyword 7 Which keyword retains duplicate output rows in a query result? Ans. ALL keyword 8 How would you display system date as the result of a query? Ans. SELECT CURDATE(); 9 How would you calculate 13 \* 15 in SQL? Ans. SELECT 13 \* 15; 10 Which function is used to substitute NULL values in a query result? Ans. IFNULL() function is used to substitute NULL value, for eg.

SELECT FnameIFNULL(Lname,"not mentioned"), birth from student; This query will substitute all NULL rows of column Lname by string "not mentioned". 11 Which operator concatenates two strings in a query result? Ans. By using "" we can concatenate two string for eg.

SELECT "Fname Lname"; 12 Which comparison operator is used for comparing

- (i) patterns (ii) character values (iii) null values (iv) ranges (v) list of values Ans. (i) patterns -%, \_
- (ii) character values LIKE, = (iii) null values IS NULL (iv) ranges <, <=, >, >=, BETWEEN (v) list if values IN , NOT IN

### **Type B: Short Answer Questions**

Consider table Empl given in solved problem and answer the following questions http://cbsecsnip.in



1	COSE		- P							
	Write a query to display ename and sal of employees whose salary is greater than or equal to 2200 from table empl?									
Ans.	SELECT ename, sal FROM empl WHERE sal >= 2200;									
2	Write a query to display details of employees who are not getting commission from table empl?									
Ans	SELECT * FROM empl WHERE comm IS NULL;									
3	Write a qu 2500 to 40		play em	ployee r	name and sala	ary of those emp	oloyee who	don't have thei	r salary in the	range of
Ans.	,									
	OR									
	SELECT ename, sal FROM empl WHERE sal <2500 OR sal >4000;									
4						alary of employ	ees who do	not have mana	ger?	
Ans.	SELECT ena	me, job,	sal FRON	۱ empl ۱	WHERE mgr IS	NULL;				
5	Write a qu	ery to dis	play the	name o	f employees v	whose name co	ntains 'A' as	third alphabet	?	
Ans.	SELECT ena	me FRON	M empl V	VHERE e	name LIKE '	A%';				
6	Write a qu	ery to dis	play the	name o	f employees	whose name co	ntains 'T' as	last alphabet?		
Ans.	SELECT ena	me FROM	И empl V	VHERE e	name LIKE '%'	Т';				
7	Write a qu	ery to dis	play the	name o	f employees	whose name co	ntains 'M' as	first alphabet	'L' as third al	phabet?
Ans.	SELECT ena	me FROM	M empl V	VHERE e	name LIKE 'M	_L%';				
8	Write a qu	ery on th	e custon	ners tab	le whose outp	out will exclude	all customer	rs with a rating	<=100, unles	s they are
	located in	Shimla.								
Ans.	Table not g	iven in b	ook. Assı	uming th	at table have	column rating a	nd city quen	will be -		
	SELECT cus	t_name F	ROM cu	stomers	WHERE rating	g >=100 OR city	LIKE 'Shimla'			
9	Write a qu	ery that s	selects a	lorders	(order table)	except those w	ith zeros or	NULLs in the ar	nt field.	
Ans.				_	at table have NOT NULL;	column rating a	nd city quer	will be –		
10			ds for th	e follow	ving on the ba	sis of given tab	le SPORTS			
	TABLE- SPORTS									
		St No	Class	Score	Name	Game1	Grade 1	STIDM	Grade 2	
		St_No	Class	Score	Name	Game1	Grade 1	SUPW	Grade 2	
		10	7	8	Sammer	Cricket	В	Photography	A	
		10 11	7	8	Sammer Sujit	Cricket Tennis	B A	Photography Gardening	A C	
		10 11 12	7 8 7	8 3 3	Sammer Sujit Kamal	Cricket Tennis Swimming	B A B	Photography Gardening Photography	A C B	
		10 11 12 13	7 8 7	8 3 3 7	Sammer Sujit Kamal Venna	Cricket Tennis Swimming Tennis	B A B C	Photography Gardening Photography Cooking	A C B	
		10 11 12 13 14	7 8 7 7	8 3 3 7 8	Sammer Sujit Kamal Venna Archana	Cricket Tennis Swimming Tennis Basketball	B A B C	Photography Gardening Photography Cooking Literature	A C B A	
		10 11 12 13 14 15	7 8 7 7 9	8 3 7 8 3	Sammer Sujit Kamal Venna Archana Arpitt	Cricket Tennis Swimming Tennis Basketball Cricket	B A B C A	Photography Gardening Photography Cooking Literature Gardening	A C B	
		10 11 12 13 14 15 the name	7 8 7 7 9 10 s of the s	8 3 7 8 3 students	Sammer Sujit Kamal Venna Archana Arpitt who are getti	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir	B A B C A	Photography Gardening Photography Cooking Literature Gardening	A C B A	
	(ii) Display	10 11 12 13 14 15 the name	7 8 7 7 9 10 s of the s	8 3 7 8 3 students	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the school	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir	B A B C A A n either GAM	Photography Gardening Photography Cooking Literature Gardening	A C B A	
	(ii) Display (iii) Display	10 11 12 13 14 15 the name the differ	7 8 7 7 9 10 s of the sent gam W taken	8 3 7 8 3 students es offeroup by th	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the school	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start	B A B C A A n either GAM	Photography Gardening Photography Cooking Literature Gardening	A C B A	
Ans.	(ii) Display (iii) Display (i) SELECT r	10 11 12 13 14 15 the name the differ the SUPV	7 8 7 7 9 10 s of the sent gam W taken	8 3 7 8 3 students es offereup by the	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoole students, will grade1='C' C' are sujected in the schoole students.	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir	B A B C A A n either GAM	Photography Gardening Photography Cooking Literature Gardening	A C B A	
Ans.	(ii) Display (iii) Display (i) SELECT r (ii) SELECT	10 11 12 13 14 15 the name the differ the SUPV	7 8 7 7 9 10 s of the sent gam W taken OM sport game 1	8 3 7 8 3 students es offeroup by th s WHER	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoole students, will grade1='C' Coorts;	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start DR grade2='C';	B A B C A A n either GAM	Photography Gardening Photography Cooking Literature Gardening	A C B A	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPW pame FRC DISTINCT SUPW FR	7 8 7 7 9 10 s of the sent gam W taken DM sport game 1 (ROM `sport	8 3 7 8 3 students es offeroup by th s WHER FROM sports' WH	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoole students, will grade1='C' Coorts; IERE name LIK	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start DR grade2='C';	B A B C A A either GAM	Photography Gardening Photography Cooking Literature Gardening	A C B A	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPW pame FRC DISTINCT SUPW FR	7 8 7 7 9 10 s of the sent gam W taken DM sport game 1 (ROM `sport	8 3 7 8 3 students es offeroup by th s WHER FROM sports' WH	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schole students, will grade1='C' Coorts; IERE name LIK	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start DR grade2='C'; E 'A%'; sis of given tab	B A B C A A either GAM with 'A'.	Photography Gardening Photography Cooking Literature Gardening	A C B A	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPV name FRC DISTINCT SUPW FF comman	7 8 7 7 9 10 s of the serint game V taken OM sporting game 1 ROM 'sporting for the	8 3 7 8 3 students es offerup by th s WHER FROM sports' WHee follow	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoe students, wie grade1='C' Coorts; ERE name LIK	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start OR grade2='C'; EE 'A%'; ssis of given tab TABLE- SPORT	B A B C A A either GAM with 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.	A C B A A	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPW pame FRC DISTINCT SUPW FR	7 8 7 7 9 10 s of the sent gam W taken DM sport game 1 (ROM `sport	8 3 7 8 3 students es offeroup by th s WHER FROM sports' WH	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schole students, will grade1='C' Coorts; IERE name LIK	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start DR grade2='C'; E 'A%'; sis of given tab	B A B C A A either GAM with 'A'.	Photography Gardening Photography Cooking Literature Gardening	A C B A	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPV name FRC DISTINCT SUPW FF comman	7 8 7 7 9 10 s of the serint game V taken OM sporting game 1 ROM 'sporting for the	8 3 7 8 3 students es offerup by th s WHER FROM sports' WHee follow	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoe students, wie grade1='C' Coorts; ERE name LIK	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start OR grade2='C'; EE 'A%'; ssis of given tab TABLE- SPORT	B A B C A A either GAM with 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.	A C B A A	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPV pame FRC DISTINCT SUPW FF comman	7 8 7 7 9 10 s of the sent game W taken DM sport game1 ROM 'sport Good's for the	8 3 7 8 3 students es offer up by th s WHER FROM sp orts' WH ee follow	Sammer Sujit Kamal Venna Archana Arpitt who are getti ed in the scho e students, wi E grade1='C' Coorts; IERE name LIK ving on the ba	Cricket Tennis Swimming Tennis Basketball Cricket ling a grade 'C' ir ol. hose name start OR grade2='C'; EE 'A%'; sis of given tab TABLE- SPORT	B A B C A A n either GAM with 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.  Game2 Swimming	A C B A A C	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the differ the SUPV FR Comman St No 10	7 8 7 7 9 10 s of the sent game W taken W taken W sport game 1 is	8 3 7 8 3 students es offer up by th s WHER FROM sp orts' WH ee follow	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoole students, will grade1='C' Coorts; ERE name LIK ving on the ban	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start OR grade2='C'; E'A%'; sis of given tab TABLE- SPORT Game1 Cricket	B A B C A A n either GAM with 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.  Game2 Swimming	A C B A A C C	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the different the SUPV FR comman St No 10 11	7 8 7 7 9 10 s of the sent game 1 game 1 game 1 ROM 'sport game 1 Class 7 8	8 3 7 8 3 students es offer up by th s WHER FROM sp orts' WH ee follow  Score 8 3	Sammer Sujit Kamal Venna Archana Arpitt who are getti ed in the scho e students, wi E grade1='C' Coorts; IERE name LIK ving on the ba  Name Sammer Sujit	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' in ol. hose name start OR grade2='C'; E'A%'; sis of given tab TABLE- SPORT Game1 Cricket Tennis	B A B C A A n either GAM swith 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.  Game2 Swimming Skating Football	A C B A A C C	
Ans. 111	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the different the SUPV FR comman  St No 10 11 12	7 8 7 7 9 10 s of the sent game 1 game 1 game 1 ROM 'sport Gass 7 8 7	8 3 7 8 3 students es offer up by th s WHER FROM sp orts' WH ee follow  Score 8 3 3	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoole students, will grade1='C' Coorts; IERE name LIK ving on the ball Name Sammer Sujit Kamal Venna	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' ir ol. hose name start OR grade2='C'; E'A%'; isis of given tab TABLE- SPORT Game1 Cricket Tennis Swimming	B A B C A A n either GAM swith 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.  Game2 Swimming Skating Football Tennis	A C Grade 2 A C B	
	(ii) Display (iii) Display (i) SELECT r (ii) SELECT (iii) SELECT	10 11 12 13 14 15 the name the different the SUPV FROM SUPW FROM S	7 8 7 7 9 10 s of the sent game 1 game 1 game 1 Class 7 8 7	8 3 7 8 3 students es offer up by th s WHER FROM sp orts' WH ee follow  Score  8 3 7	Sammer Sujit Kamal Venna Archana Arpitt who are gettied in the schoole students, will grade1='C' Coorts; IERE name LIK ving on the ball Name Sammer Sujit Kamal	Cricket Tennis Swimming Tennis Basketball Cricket ing a grade 'C' in ol. hose name start OR grade2='C'; E'A%'; sis of given tab TABLE- SPORT Game1 Cricket Tennis Swimming Tennis	B A B C A A n either GAM swith 'A'.	Photography Gardening Photography Cooking Literature Gardening E or SUPW.  Game2 Swimming Skating Football Tennis Cricket	A C Grade 2 A C B A	

#### equal to 2200 from table

empl? Ans. SELECT ename, sal FROM empl WHERE sal >= 2200; 2 Write a query to display details of employees who are not getting commission from table empl? Ans SELECT \* FROM empl WHERE comm IS NULL; 3 Write a query to display employee name and salary of those employee who don't have their salary in the range of

2500 to 4000? Ans. SELECT ename, sal FROM empl WHERE sal NOT BETWEEN 2500 AND 4000:

OR SELECT ename, sal FROM empl WHERE sal <2500 OR sal >4000; 4 Write a query to display the name, job title and salary of employees who do not have manager? Ans. SELECT ename, job, sal FROM empl WHERE mgr IS NULL; 5 Write a query to display the name of employees whose name contains 'A' as third alphabet? Ans. SELECT ename FROM empl WHERE ename LIKE '\_\_A%'; 6 Write a query to display the name of employees whose name contains 'T' as last alphabet? Ans. SELECT ename FROM empl WHERE ename LIKE '%T'; 7 Write a query to display the name of employees whose name contains 'M' as first alphabet 'L' as third alphabet? Ans. SELECT ename FROM empl WHERE ename LIKE 'M\_L%'; 8 Write a query on the customers table whose output will exclude all customers with a rating <=100, unless they are

located in Shimla. Ans. Table not given in book. Assuming that table have column rating and city query will be —

SELECT cust\_name FROM customers WHERE rating >=100 OR city LIKE 'Shimla' 9 Write a query that selects all orders (order table) except those with zeros or NULLs in the amt field. Ans. Table not given in book. Assuming that table have column rating and city query will be \_

# SELECT \* FROM order WHERE amt IS NOT NULL; 10 Write SQL commands for the following on the basis of given table SPORTS

#### **TABLE-SPORTS**

St\_No Class Score Name Game1 Grade 1 SUPW Grade 2 10 7 8 Sammer Cricket B Photography A 11 8 3 Sujit Tennis A Gardening C 12 7 3 Kamal Swimming B Photography B 13 7 7 Venna Tennis C Cooking A 14 9 8 Archana Basketball A Literature A 15 10 3 Arpitt Cricket A Gardening C (i) Display the names of the students who are getting a grade 'C' in either GAME or SUPW. (ii) Display the different games offered in the school. (iii) Display the SUPW taken up by the students, whose name start with 'A'. Ans. (i) SELECT name FROM sports WHERE grade1='C' OR grade2='C';

(ii) SELECT DISTINCT game1 FROM sports; (iii) SELECT SUPW FROM `sports` WHERE name LIKE 'A%'; 11 Write SQL commands for the following on the basis of given table SPORTS

TABLE- SPORTS St No Class Score Name Game1 Grade 1 Game2 Grade 2 10 7 8 Sammer Cricket B Swimming A 11 8 3 Sujit Tennis A Skating C 12 7 3 Kamal Swimming B Football B 13 7 7 Venna Tennis C Tennis A 14 9 8 Archana Basketball A Cricket A 15 10 3 Arpitt Cricket A Athletics C (i) Display names of the students who have grade 'C' in either Game1 or Game2 or

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	cbse cs															
	(ii) Display nan		students w	ho have san	ne game for b	oth Game1 a	and Gan	ne2.								
	(iii) Display the games taken up by the students whose name starts with 'A'.															
lns.	(i) SELECT name	(i) SELECT name FROM sports WHERE grade1='C' OR grade2='C';														
	(ii) SELECT name FROM sports WHERE game1 = game2;															
	(iii) SELECT gmes1,game2 FROM sports WHERE name LIKE 'A%';															
2	Write SQL commands for the following on the basis of given table CLUB:															
	Table: <u>CLUB</u>															
	COACH_	ID COAC	H_NAME	AGE	SPORTS	DATOF	APP	PAY	SE	X						
	1.	KUKR	EJA	35	KARATE	27/03/	1996	1000	M							
	2.	RAVII	NA	34	KARATE	20/01/	1998	1200	F							
	3.	KARA	N	34	SQUASH	19/02/	1998	2000	M							
	4.	TARU	N	33	BASKETBA	LL 01/01/	1998	1500	M							
	5.	ZUBIN	N .	36	SWIMMIN	IG 12/01/	1998	750	М							
	6.	KETA		36	SWIMMIN			800	F							
	7.	ANKI		39	SQUASH	20/02/		2200	F							
	8.	ZARE		37	KARATE	22/02/		1100	F							
	9.	KUSH		41	SWIMMIN		-	900	M							
	10.	SHAIL		37	BASKETBA	,		1700	M							
					wimming coa											
					eir DATOFAPP				_							
	(c) To				name, pay, ag	and bonus	(15% 01	pay) for	all the co	acnes.						
ns.	(b) SELECT coad															
	(c) SELECT coad	_				-										
3	Write SQL com						NT1:									
					Table: STUD											
		S.NO.	NAME	STIPEND	STREAM	AVGI	MARK	GRADE								
		1	KARAN	400.00	Medical				CLASS							
				400.00	ivieuicai	78.5		В	12B							
	1	2	DIVAKAR		Commerce	78.5 89.2	$\dashv$									
		2		450.00 300.00				В	12B							
			DIVAKAR	450.00 300.00	Commerce	89.2 68.6		B A	12B 11C							
		3	DIVAKAR DIVYA	450.00	Commerce Commerce	89.2 68.6 73.1		A C B	12B 11C 12C							
		3 4 5	DIVAKAR DIVYA ARUN SABINA	450.00 300.00 350.00 500.00	Commerce Commerce Humanities Nonmedica	89.2 68.6 73.1 I 90.6		A C B	12B 11C 12C 12C 12C							
		3	DIVAKAR DIVYA ARUN SABINA JOHN	450.00 300.00 350.00 500.00 400.00	Commerce Commerce Humanities Nonmedica Medical	89.2 68.6 73.1 I 90.6 75.4		B A C B A	12B 11C 12C 12C 12C 11A 12B							
		3 4 5 6	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT	450.00 300.00 350.00 500.00 400.00 250.00	Commerce Commerce Humanities Nonmedical Medical Humanities	89.2 68.6 73.1 I 90.6 75.4 64.4		B A C B A B	12B 11C 12C 12C 12C							
		3 4 5 6 7	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA	450.00 300.00 350.00 500.00 400.00 250.00 450.00	Commerce Commerce Humanities Nonmedical Humanities Nonmedical	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5		B C B A B C	12B 11C 12C 12C 11A 12B 11A							
		3 4 5 6 7 8	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT	450.00 300.00 350.00 500.00 400.00 250.00 450.00	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedical	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5 I 92.0		B C B A B C A	12B 11C 12C 12C 11A 12B 11A 12A 12A							
	(a) Select all th	3 4 5 6 7 8 9	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN	450.00 300.00 350.00 500.00 400.00 250.00 450.00 500.00	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5		B C B A B C	12B 11C 12C 12C 11A 12B 11A							
	(a) Select all th	3 4 5 6 7 8 9 10 e nonmed	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical student	450.00 300.00 350.00 500.00 400.00 250.00 450.00 500.00 300.00	Commerce Commerce Humanities Nonmedical Medical Humanities Nonmedica Nonmedica Commerce ent1.	89.2 68.6 73.1 90.6 75.4 64.4 1 88.5 I 92.0 67.5		B C B A B C A	12B 11C 12C 12C 11A 12B 11A 12A 12A							
	(a) Select all th (b) List the nam (c) List all stude	3 4 5 6 7 8 9 10 e nonmed	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students	450.00 300.00 350.00 500.00 400.00 250.00 450.00 500.00 300.00 s from Stude who are in c	Commerce Commerce Humanities Nonmedical Medical Humanities Nonmedica Nonmedica Commerce ent1.	89.2 68.6 73.1 90.6 75.4 64.4 1 88.5 I 92.0 67.5		B C B A B C A	12B 11C 12C 12C 11A 12B 11A 12A 12A							
	(b) List the nam	3 4 5 6 7 8 9 10 e nonmednes of thosents sorted	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students by Avgma	450.00 300.00 350.00 500.00 400.00 250.00 450.00 500.00 300.00 s from Stude who are in cork in descende	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce ent1. class 12 sorted ding order.	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5 I 92.0 67.5 by stipend.		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ng that that						
	(b) List the nam (c) List all stude	3 4 5 6 7 8 9 10 e nonmed nes of thosents sorted port, listin	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students by Avgma g Name, sti	450.00 300.00 350.00 500.00 400.00 250.00 450.00 500.00 300.00 s from Stude who are in cork in descende	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce ent1. class 12 sorted ding order.	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5 I 92.0 67.5 by stipend.		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ng that that						
ns.	(b) List the nam (c) List all stude (d) Display a re	3 4 5 6 7 8 9 10 e nonmednes of thosents sorted port, listin every more	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students by Avgma g Name, sti	450.00 300.00 350.00 500.00 400.00 250.00 450.00 500.00 300.00 st from Stude who are in c	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce ent1. class 12 sorted ding order. m and amount	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5 I 92.0 67.5 by stipend.		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ng that that						
	(b) List the nam (c) List all stude (d) Display a re stipend is paid	3 4 5 6 7 8 9 10 e nonmed nes of thosents sorted port, listin every more syourself,	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students by Avgma g Name, sti nth. refer the q	450.00 300.00 350.00 500.00 400.00 250.00 450.00 300.00 s from Stude who are in cork in descendance in descendance in cork in descendance in descendan	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce ent1. class 12 sorted ding order. m and amount	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5 I 92.0 67.5 by stipend.		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ng that that						
4	(b) List the nam (c) List all stude (d) Display a re stipend is paid Student try this	3 4 5 6 7 8 9 10 e nonmed nes of thosents sorted port, listin every more syourself, d 13 only to	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students by Avgma g Name, sti nth. refer the quality	450.00 300.00 350.00 500.00 400.00 250.00 450.00 300.00 s from Stude who are in cork in descend pend, stream pend, stream perent.	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce ent1. class 12 sorted ding order. m and amount	89.2 68.6 73.1 I 90.6 75.4 64.4 I 88.5 I 92.0 67.5 by stipend.		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ng that that						
4 5	(b) List the nam (c) List all stude (d) Display a re stipend is paid Student try this Same as 12 and	3 4 5 6 7 8 9 10 e nonmed nes of thosents sorted port, listin every more syourself, d 13 only to	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students by Avgma g Name, sti nth. refer the quable is difficable in the difficable is difficable in the difficable in the difficable is difficable in the d	450.00 300.00 350.00 500.00 400.00 250.00 450.00 300.00 s from Stude who are in cork in descend pend, stream pend, stream perent.	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedica Commerce ent1. class 12 sorted ding order. m and amount in question 12	89.2 68.6 73.1 90.6 75.4 64.4 1 88.5 1 92.0 67.5 by stipend.		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ing that that						
4 5	(b) List the nam (c) List all stude (d) Display a re stipend is paid Student try this Same as 12 and Same as 12 and	3 4 5 6 7 8 9 10 e nonmed nes of thosents sorted port, listin every more syourself, d 13 only to the follow	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students is by Avgma ig Name, sti nth. refer the quable is difficiable is difficial on the least	450.00 300.00 350.00 500.00 400.00 250.00 450.00 300.00 s from Stude who are in cark in descend pend, stream ueries given erent.	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedical Commerce ent1. class 12 sorted ding order. m and amount in question 12 m table GRAD TABLE: GRAD	89.2 68.6 73.1 90.6 75.4 64.4 1 88.5 1 92.0 67.5 by stipend.	eceived	B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12C	ng that that						
ns. 4 5	(b) List the nam (c) List all stude (d) Display a re stipend is paid Student try this Same as 12 and Same as 12 and	3 4 5 6 7 8 9 10 e nonmed nes of thosents sorted port, listin every more syourself, d 13 only to the follow	DIVAKAR DIVYA ARUN SABINA JOHN ROBERT RUBINA VIKAS MOHAN ical students is by Avgma ig Name, sti nth. refer the quable is difficiable is difficial on the least	450.00 300.00 350.00 500.00 400.00 250.00 450.00 300.00 st from Stude who are in crk in descene pend, stream students given erent.  Beautiful St.	Commerce Commerce Humanities Nonmedical Humanities Nonmedical Nonmedical Commerce ent1. class 12 sorted ding order. m and amount in question 12 m table GRAD TABLE: GRAI	89.2 68.6 73.1 1 90.6 75.4 64.4 1 88.5 1 92.0 67.5 by stipend. of stipend re		B A C B C A A C C	12B 11C 12C 12C 11A 12B 11A 12A 12A 12C	ng that that						

## Display the games taken up by the students whose name starts with 'A'. Ans. (i) SELECT name FROM sports WHERE grade1='C' OR grade2='C';

(ii) SELECT name FROM sports WHERE game1 = game2; (iii) SELECT gmes1,game2 FROM sports WHERE name LIKE 'A%'; 12 Write SQL commands for the following on the basis of given table CLUB:

Table: CLUB COACH\_ID COACH\_NAME AGE SPORTS DATOFAPP PAY SEX 1. KUKREJA 35 KARATE 27/03/1996 1000 M 2. RAVINA 34 KARATE 20/01/1998 1200 F 3. KARAN 34 SQUASH 19/02/1998 2000 M 4. TARUN 33 BASKETBALL 01/01/1998 1500 M 5. ZUBIN 36 SWIMMING 12/01/1998 750 M 6. KETAKI 36 SWIMMING 24/02/1998 800 F 7. ANKITA 39 SQUASH 20/02/1998 2200 F 8. ZAREEN 37 KARATE 22/02/1998 1100 F 9. KUSH 41 SWIMMING 13/01/1998 900 M 10. SHAILYA 37 BASKETBALL 19/02/1998 1700 M (a) To show all information about the swimming coaches in the club. (b) To list names of all coaches with their DATOFAPP (date of appointment) in descending order. (c) To display a report, showing coachname, pay, age and bonus (15% of pay) for all the coaches. Ans. (a) SELECT \* FROM club WHERE sports LIKE 'SWIMMING'

(b) SELECT coach\_name FROM club ORDER BY dateofapp DESC; (c) SELECT coach\_name, pay, age, pay \*15 /100 AS "bonus" FROM club; 13 Write SQL commands for the following on the basis of given table STUDENT1:

#### Table: STUDENT1 S.NO. NAME STIPEND STREAM AVGMARK GRADE CLASS

1 KARAN 400.00 Medical 78.5 B 12B 2 DIVAKAR 450.00 Commerce 89.2 A 11C 3 DIVYA 300.00 Commerce 68.6 C 12C 4 ARUN 350.00 Humanities 73.1 B 12C 5 SABINA 500.00 Nonmedical 90.6 A 11A 6 JOHN 400.00 Medical 75.4 B 12B 7 ROBERT 250.00 Humanities 64.4 C 11A 8 RUBINA 450.00 Nonmedical 88.5 A 12A 9 VIKAS 500.00 Nonmedical 92.0 A 12A 10 MOHAN 300.00 Commerce 67.5 C 12C (a) Select all the nonmedical students from Student1. (b) List the names of those students who are in class 12 sorted by stipend. (c) List all students sorted by Avgmark in descending order. (d) Display a report, listing Name, stipend, stream and amount of stipend received in a year as summing that that stipend is paid every month. Ans. Student try this yourself, refer the queries given in question 12 14 Same as 12 and 13 only table is different. 15 Same as 12 and 13 only table is different. 16 Write SQL for the following on the basis of given table GRADUATE

#### TABLE: GRADUATE S.NO. NAME STIPEND SUBJECT AVERGE RANK

1 KARAN 400 PHYSICS 68 1 2 DIVAKAR 450 COMPUTER SC 68 1



۳	par.					
	3	DIVYA	300	CHEMISTRY	62	2
	4	ARUN	350	PHYSICS	63	1
	5	SABINA	500	MATHEMATICS	70	1
	6	JOHN	400	CHEMISTRY	55	2
	7	ROBERT	250	PHYSICS	64	1
	8	RUBINA	450	MATHEMATICS	68	1
	9	VIKAS	500	COMPUTER SC	62	1
	10	MOHAN	300	MATHEMATICS	57	2

- (a) List the names of those students who have obtained rank 1 sorted by NAME.
- (b) Display a report, listing NAME, STIPEND, SUBJECT and amount of stipend received in year assuming that the STIPEND is paid every month.
- (a) SELECT name FROM graduate WHERE rank=1 ORDER BY name;
  - (b) SELECT name, stipend, subject, stipend\*12 AS "Amount of Stipend" FROM graduate;
- 17 Write SQL commands for the following on the basis of given table relation teacher.

#### TABLE: Teacher

No.	Name	Age	Department	Dateofjoin	Salary	Sex
1	Jugal	34	Computer	10/01/97	12000	M
2	Sharmila	31	History	24/03/98	20000	F
3	Sandeep	32	Maths	12/12/96	30000	М
4	Sangeeta	35	History	01/07/99	40000	F
5	Rakesh	42	Maths	05/09/97	25000	М
6	Shyam	50	History	27/06/98	30000	М
7	Shiv Om	44	Computer	25/02/97	21000	M
8	Shalakha	33	Maths	31/07/97	20000	f

- (a) To show all information about the teacher of history department
- (b) To list the names of female teachers who are in Hindi department
- (c) To list names of all teachers with their date of joining in ascending order.

- Ans. (a) SELECT \* FROM teacher WHERE department LIKE "History";
  - (b) SELECT name FROM teacher WHERE sex ='F' AND department LIKE 'Hindi';
  - (a) SELECT name, dateofjoin FROM teacher ORDER BY dateofjoin;

1 6 JOHN 400 CHEMISTRY 55 2 7 ROBERT 250 PHYSICS 64 1 8 RUBINA 450 MATHEMATICS 68 1 9 VIKAS 500 COMPUTER SC 62 1 10 MOHAN 300 MATHEMATICS 57 2 (a) List the names of those students who have obtained rank 1 sorted by NAME. (b) Display a report, listing NAME, STIPEND, SUBJECT and amount of stipend received in year assuming that the

STIPEND is paid every month. Ans. (a) SELECT name FROM graduate WHERE rank=1 ORDER BY name:

(b) SELECT name, stipend, subject, stipend\*12 AS "Amount of Stipend" FROM graduate; 17 Write SQL commands for the following on the basis of given table relation teacher.

TABLE: Teacher No. Name Age Department Dateofjoin Salary Sex 1 Jugal 34 Computer 10/01/97 12000 M 2 Sharmila 31 History 24/03/98 20000 F 3 Sandeep 32 Maths 12/12/96 30000 M 4 Sangeeta 35 History 01/07/99 40000 F 5 Rakesh 42 Maths 05/09/97 25000 M 6 Shyam 50 History 27/06/98 30000 M 7 Shiv Om 44 Computer 25/02/97 21000 M 8 Shalakha 33 Maths 31/07/97 20000 f (a) To show all information about the teacher of history department (b) To list the names of female teachers who are in Hindi department (c) To list names of all teachers with their date of joining in ascending order. Ans. (a) SELECT \* FROM teacher WHERE department LIKE "History";

(b) SELECT name FROM teacher WHERE sex ='F' AND department LIKE 'Hindi'; (a) SELECT name, dateofjoin FROM teacher ORDER BY dateofjoin;