

**Class XI –Informatics Practices
Winter Break Homework 2018**

**** Take print out of this page and paste it in your classwork notebook and then just write the solution of every question in the notebook. There is no need to write the question again.**

**** Homework complete in all respect should be submitted on 14 Jan 2019.**

Q1. Which keyword eliminates the redundant data from a query result?

Q2. How would you calculate 13*15 in SQL?

Q3. Write MySql command that will be used to open an already existing database "CONTACTS".

Q4. Write the UPDATE statement in MySQL to double the commission in the "Commission" column of the "EMP" table.

Q5. Write one similarity and one difference between CHAR and VARCHAR data type.

Q6. Which two characters are used for pattern matching in SQL? Explain by giving example.

Q7. A table EMPLOYEE has 14 rows and 20 columns. What will be its cardinality and degree? What will be the new cardinality and degree if 4 rows and 2 columns are deleted from table?

Q8. What is the purpose of DROP TABLE command in MySQL? How is it different from DELETE command?

Q9. Write an SQL query to create the table SALESPERSON with the following structure:

Table: SALESPERSON

Column name	Data type
SCODE	VARCHAR(8)
FIRSTNAME	CHAR(20)
LASTNAME	CHAR(20)
CITY	VARCHAR(15)
SALES	INTEGER

Q10. What do you mean by DBMS? What are the advantages of DBMS?

Q11. What is View? Explain with the help of an example?

Q12. Define the following:

- (i) Primary Key
- (ii) Candidate Key
- (iii) Alternate Key
- (iv) Foreign Key
- (v) Tuple
- (vi) Attribute

Q13. Write SQL commands for the following on the basis of given table STUDENT.

Table: STUDENT

No.	Name	Stipend	Stream	AvgMark	Grade	Class
1	Karan	400	Medical	78.5	B	12B
2	Divakar	450	Commerce	89.2	A	11C
3	Divya	300	Commerce	68.6	C	12C
4	Arun	350	Humanities	73.1	B	12C
5	Sabina	500	Nonmedical	90.6	A	11A
6	John	400	Medical	75.4	B	12B
7	Robert	250	Humanities	64.4	C	11A
8	Rubina	450	Nonmedical	88.5	A	12A
9	Vikas	500	Nonmedical	92.0	A	12A
10	Mohan	300	Commerce	67.5	C	12C

- (i) Write a command to display data of all students.
- (ii) Select all the Nonmedical stream students from STUDENT.

- (iii) List the names of those students who are in class 12 sorted.
- (iv) List all students details sorted by AvgMark in descending order.
- (v) List name of those students whose stipend is between 300 and 500.
- (vi) Display the name, stream and class of those students, whose name starts with 'D'.
- (vii) Display the name of those students, whose name ends with 'a'.
- (viii) Write command to delete detail of those students whose grade is B.
- (ix) Write the **output** for the following SQL commands:

- a. SELECT Name from STUDENT where Name LIKE '%i%';
- b. SELECT distinct Stream from STUDENT;
- c. SELECT * from STUDENT where Stream IN ('Medical', 'Nonmedical');
- d. SELECT Name from STUDENT where Stipend =300 OR Stipend = 450;
- e. SELECT Name from STUDENT where Stipend =450 AND Grade = 'A';
- f. SELECT * from STUDENT where Stipend =500;

Q14. What is SQL? What are different categories of commands available in SQL?
