INDIAN SCHOOL AL WADI AL KABIR

Class: 11th (IP)	Department: Computer Science	Date of submission:
Worksheet No: 08	**Topic: Database concepts and MYSQL**	**Note: To be written in Notebook**

1. Give the full form for the following:

   SQL, RDBMS, DDL, DML

2. What is a relation?

3. Explain tuples and attributes with an appropriate example.

4. Define the following with examples:

   i. primary key

   ii. Candidate key

   iii. Alternate key.

5. A table employee has 5 rows and 6 columns. What is the cardinality and degree of the table?

6. What are constraints? Name the different constraints used while creating a table.

7. Rahul has applied a Constraint on a column(field) such that Ajay will certainly have to insert a value in this field, when he inserts a new row in the table. Which constraint has Ajay used?

8. A table student has Roll_no as one column. While entering the details, Smitha is not able to enter duplicate values. What constraint has she given while creating the table?

9. Write a SQL statements for the following:
   i) To create a database company
   ii) To see all the existing databases
   iii)To open the existing database company.
   iv) To list the tables in company database

10. Create the table medicine with the following structure:

Field Name	Data Type	Data Limit	Constraint
MEDID	int	5	PRIMARY KEY
MEDNAME	varchar	25	NOT NULL
EXPDATE	Date		
MEDTYPE	varchar	15	
RATE	int	5	
QUANTITY	int	4	

11. a. Write command to display the structure of the above table.

b. Write command to insert a record in to the above table.

MEDID	MEDNAME	EXPDATE	MEDTYPE	RATE	QUANTITY
010	Panadol	12/12/22	Adult	90	12
011	Calpol	23/5/25	Infant	50	20

12. Table library has the following data:

TABLE: LIBRARY

BNO	BTITLE	BPUB	ISSUEDATE	PRICE
4002	C++	VIKAS PUB	03-NOV-2002	485
4072	JAVA	TATA MCGRAW HILL	23-JUN-1997	750
3789	VB	GALGOTIA PUB	12-SEP-2004	400
4821	ASP	TATA MCGRAW HILL	17-MAY-2013	275
2901	PERL	GALGOTIA PUB	21-APR-2012	600
3285	SQL	VIKAS PUB	15-DEC-2005	180
5674	NETWORK	HASSAN PUB	04-JAN-1989	1250
7200	OS	TATA MCGRAW HILL	10-AUG-2008	370
1579	LINUX	JEEVAN PUB	23-SEP-2011	860
9278	WINDOWS	GALGOTIA PUB	18-OCT-2003	220
5729	SYBASE	GALGOTIA PUB	06-JAN-2012	
8005	MYSQL	VIKAS PUB	28-MAR-1999	510
1058	MS OFFICE	TATA MCGRAW HILL	12-NOV-2001	
1685	INTRANET	VIKAS PUB	15-MAR-2010	220

a. Write SQL queries for the following:
   i. Display the details of Books from TATA MCGRAW HILL publication.
   ii. Display the Details of the Books whose Price is not given.
   iii. Display the details of books of the Publisher "GALGOTIA PUB' with price more than 500
   iv. Display the Book Name & Issue Date of the Books with the price more than 800.
   v. Display the details of the books with Issue Date Before '01-OCT-2006'.
   vi. Display the details of the Books not Published by "VIKAS PUB".
   vii. Display the details of the Books "LINUX", "MYSQL" & "ASP".
   viii. Display the book names which are neither published by galgotia pub nor by vikas pub
   ix. Display the details of BNO for books issued after 10th August 2002.

b. Find the output of the following:
   i. SELECT BTITLE , PRICE FROM LIBRARY WHERE BPUB = "GALGOTIA PUB";
   ii. SELECT DISTINCT BPUB FROM LIBRARY;
   iii. SELECT BTITLE , BPUB FROM LIBRARY WHERE PRICE > 250 AND BPUB ="TATA MCGRAW HILL";