

**LA CHATELAINE JUNIOR COLLEGE
COMPUTER SCIENCE**

CLASS VIII CHAPTER 9-Introduction to Database and DBMS

I. Fill in the blanks(1 mark each)

1. A collection of related data which is organized for easy access is called Database.
2. Data in databases are stored in form of tables.
3. A table consists of rows and columns.
4. The row of Database table is called as a record.
5. The headings of column in a Database table is called as field name.
6. Each cell of a Database table is called a field.
7. Query is a special view of a table corresponding to specific information.
8. The column which uniquely identifies a record in a database table is called Primary Key.
9. DataBase Management System provides software programs and tools to manage Database efficiently.
10. The extension of Database file of Libre office Database is (c) a) Mdb b) xls c) odb d) bdb

II. True or False(1 mark each)

1. DBMS is a software. TRUE
2. A Database can have only 1 table. FALSE
3. A Primary key allows duplicate values. FALSE
4. Query can link multiple tables if they have a common column. TRUE
5. PortoDb App is a database app in mobiles. TRUE

III. Match the following(1 mark each)

1. Database Oracle[4]
2. Primarykey mobileapp[5]
3. Query .odb[1]
4. DBMS No Duplicates[2]
5. PortoDb Special View[3]

IV. Answer in one word/two words(1 mark each)

1. Name a data formats supported in a database Text/ Numeric/images/audio/video(for 1 mark any 1 can be written)
2. What does the extension .odb stands for? Open document database format.
3. How the column that uniquely identifies a record in a table is called? Primary Key
4. How will you create a new database in Libreoffice Base? File menu-New-Database
5. How will you open an existing database in Libreoffice Base ? File menu-Open option-Choose the database.
6. Which option will you use to create a query in Libreoffice database? In the query section ,the option use wizard to create query.

7. In a query ,can we link 2 tables in a database? **Yes,if the 2 tables have a common column then we can link them.**
8. How can you link 2 tables which has a common column in Libreoffice Database? **By setting relationships between 2 tables.**
9. How can you design a form to get the details from the user in Libreoffice?
We can use the forms option in Libreoffice Base to create a form.
10. Name the component of the Libre office base that can the show the data in a organized fashion. **Reports.**

V. **Answer in one or two sentences(2 marks each)**

1. Name few data formats supported in a database. **Text, Numeric, images, audio, video**
2. Give examples of DBMS packages. **Oracle, Libreoffice Database, MySQL, Microsoft Access.**
3. Give examples of applications where database is used. **Banking, Railway, Ticket booking, Billing in shops.**
4. What is a primary key in a database table?Give an example.
A primary key
 - **Uniquely identifies a record in a table**
 - **It doesn't allow duplicate values.**
 - **Example-Student's roll number can serve as a primary key in students table.**
5. What is the options used in Libreoffice base to create a relationship between 2 tables ?
It is the option relationships in the tools menu.

VI. **Answer the following in brief(3 marks each)**

1. Identify the columns out of the given three, which should not be present in each of the following tables.

Table 1 : Student

Roll No	Cost_ID	Address
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Table 2: Book

Book_Id	Date of Birth	Phone Number
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Table 3: CD Stock

CD_Name	Design_Category	Price
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Table1:Student-Cost_Id

Table2:Date of Birth

Table3:Design_Category

2. Ram has decided to create a table called Library in Database School. Fill in the below table by choosing the appropriate field types from the below:
Text,Integer,Date,Decimal

Library

FieldName	FieldType
BookNumber	Integer
BookName	Text
DateofPurchase	Date
Price	Decimal
Category	Text

3. You have been asked to create a table for storing the library information in database called school. Write the table structure by specifying field names and field type.

Library

FieldName	FieldType
BookNumber	Integer
BookName	Text
DateofPurchase	Date
Price	Decimal
Category	Text

(Note: The field names can be any relevant detail)

4. Pratibha is working in a bank. She is creating a database to store the details of the bank customers. Which of the following fields of table Bank_Customer can be selected as primary key? Give reasons for the same.

Bank_Customer

Acc_No	Cust_Name	DOB	Opening_Bal
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The fieldname Acc_No stands for Bank's account number can be the primary key of the table. This is because in a bank ,

- Account number cannot be duplicated
- It can uniquely identify a row in a table.

5. Consider the following tables. Identify the field name that will be used for setting relationship between two tables. Give reasons for the same.

Employee table

Empcode	empname	deptno	address	salary
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Dept table

Deptno	Dname	location
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The field deptno stands for department number can be chosen for setting relationship between employee table and dept table. This is because it is the common column of the tables employee and dept.

VII. Answer the following in detail(5 marks each)

1. Observe the following table and answer the questions.

Player ID	Name	Height	Weight	Date of Birth	Right handed
T0090	Harbajan	5.9	75	28-07-1998	No
T0135	Dilip	5.5	78	28-07-1991	No
K0118	Anil	6.1	85	28-04-1992	Yes
L0035	Sachin	5.6	69	28-02-1994	Yes

- Suggest a relevant name for the table CricketPlayers
 - How many fields does the table have?
6(Player Id,Name,Height,Weight,DateofBirth,RightHanded)
 - How many records does the table have?4
 - Identify the Primary key of the table. Player Id
 - What is the format of the data in the field Date of Birth? Date DD-MM-YYYY
2. Write the steps to create a database called Hospital with tables Doctors and Patients in Libre Office.
- Open Libreoffice base
 - Click on File menu –New-Database
 - Register the database and save with name Hospital.
 - In the database Hospital, Create table Doctors with relevant fields using Table design view.
 - In the database Hospital , Create table patients with relevant fields using Table design view.

3. You have a Database called School.odt in Libre Office base.It has a table called students which stores the students details(srollno,sname,sdob).Write the steps to build a query which selects the students details in alphabetical order.

- Open Libreoffice base and open the database School.odt
- Click on Query-Use wizard to create query
- In Field Selection option, Select the appropriate field names to be displayed in the query.
- In sorting order option, choose the field sname and ascending order of display.
- Click on Finish to see the output of the query.

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