

Brain International School

I.P. Assignment

Class-XII

Oct'2018

Ch-9: More on Databases and MySQL

1. Define the term Table used in DBMS.
2. Create the TEACHER table using the following MySQL statements:

```
CREATE TABLE TEACHER
(
EMP_NO INT(4) PRIMARY KEY,
NAME VARCHAR(25),
AGE INT(3),
DEPARTMENT VARCHAR(15),
DATEOFJOIN DATE,
SALARY FLOAT,
SEX CHAR(2)
);
```

TEACHER Table

EMPNO	NAME	AGE	DEPARTMENT	DATEOFJOIN	BASIC	SEX
1	Raju	34	Computer	1997-01-10	12000	M
2	Ajit Sharma	31	Science	1998-03-24	20000	M
4	Rajiv Kumar	32	Maths	1996-12-12	15000	M
5	Suraj Patel	35	Computer	1999-07-01	18000	M
6	Sangeeta	42	Science	1997-09-05	17500	F
7	Rama	50	Science	1998-06-27	20000	M
8	Shalini	44	Computer	1997-02-25	21000	F
9	Sudha	44	Maths	1997-02-25	25000	F
10	Sandeep	42	Computer	1997-07-31	15600	M

- (a) Write MySQL commands for the following statements:
 - a. Show all information about the teacher of history department.
 - b. List the names of female teachers who are in Maths department.
 - c. List names of all teachers with their date of joining in ascending order.
 - d. Display teacher's Name, Salary, Age for male teacher only.
 - e. Count the number of teachers with age > 23.
 - (b) Give the output of the following commands:
 - a. SELECT COUNT(DISTINCT DEPARTMENT) FROM TEACHER;
 - b. SELECT MAX(AGE) FROM TEACHER WHERE SEX = 'F';
 - c. SELECT SUM(SALARY) FROM TEACHER WHERE DATEOFJOIN < '1996-07-12';
3. What is the use of update command?
 4. What are group functions?
 5. What is the significance of NULL in MySQL?
 6. What is the use of following functions:

- Sum()
- Max()
- Min()
- Count()

7. Consider the following tables WORKER and PAYLEVEL and answer (a) and (b) parts of this questions.

WORKER Table

ECODE	NAME	DESIG	PLEVEL	DOJ	DOB
11	Radhe Shyam	Supervisor	P001	2004-09-13	1981-08-23
12	Chander Nath	Operator	P003	2010-02-22	1987-07-12
13	Fizza	Operator	P003	2009-06-14	1983-10-14
15	Ameen Ahmed	Mechanic	P002	2006-08-21	1984-03-13
18	Sanya	Clerk	P002	2005-12-19	1983-06-09

PAYLEVEL Table

Dcode	PAY	ALLOWANCE
101	26000	12000
103	22000	10000
102	12000	6000

(a) Write MySQL commands for the following statements:

- To display the details of all the WORKERS in descending order of DOB.
- To display NAME and DESIG of those WORKERS, whose PLEVEL is either P001 or P002.
- To display the content of all the WORKERS table, whose DOB is in between '1984-01-19' and '1987-01-18'.
- To add a new row with the following :
19, 'Daya Kishore', 'Operator', 'P003', '2008-06-19', '1984-06-11'

(b) Give output of the following MySQL queries:

- Select COUNT(PLEVEL) Plevel From Worker group by PLEVEL;
- Select MAX(DOB), MIN(DOJ) from Worker;
- Select name, Pay from worker W, Paylevel P where W.Plevel=S.plevel and P.ecode<13;
- Select plevel, pay+allowance from paylevel where plevel= 'P003';

8. Which command is used to display structure of a table?

9. Name the command in MySQL to change the width of a column.

10. Mohan created a table named item, he wants to see those items whose price is between 200 and 800. He wrote query

```
SELECT * FROM ITEM WHOSE PRICE > 200 OR < 400;
```

Help him to run the query by removing the errors from the query by rewriting it.

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Ch-10: Advanced RDBMS Concepts

1. What is column constraint? Give an example.
2. What is the role of primary key? Explain with an example.
3. How will you see the list of existing tables?
4. Write a MySQL query to create the table BOOKS with the following structure:
Book_id not null primary key
BookName
AuthorName
Publisher
Price
Qty
5. What is equi join? Give example.
6. How will you restrict duplicate rows in SQL SELECT query?
7. In a database School there are two tables 'Member' and 'Division' as shown below:

Member

EmpID	Name	Sal	Deptno
1001	Shankhya	34000	10
1003	Ridhima	32000	50
1002	Sunish	45000	20

Division

Deptno	DName	LocationID
10	Media	TF02
20	Dance	FF02
30	Production	SF01

- (a) Identify the foreign key in the table Member.
- (b) What output will you get, when an equi-join query is executed to get the NAME from Member table and corresponding DIVISION table.