

Q. Creation of Database in MySQL

To create a database in MySQL, 'Create Database' statement is used.

Syntax:-

Create Database database_name;

Execution:-

Create Database mydatabase;

~~Printed~~

& Use a Database in MySQL

To use an existing Database, 'Use' keyword is used

~~Syntax:-~~

~~Use database_name;~~

~~Execution:-~~

~~Use mydatabase;~~

~~Pwktg~~

- 7) It is possible to have a identifier name that is only one character long, more 32 character long.
- 8) must not be a duplicate of the name of another object owned by the same user/ schema / database.

Syntax:-

~~Create table < Table_name > (column Name,
Datatype, Constraints);~~

Execution:-

~~Create table student
 sid number(2),
 sname varchar(20),
 s-address varchar(50)
);~~

To view the structure of the table

Syntax:-

~~desc tablename;~~

Output:-

Field	Type	Null	Key	Default
sid	int	yes		Null
s-name	varchar(20)	yes		Null
s-address	varchar(50)	yes		Null

Ques.

Explain :- ~~the student is~~

~~Explain~~

Create Table Statement

- Q1. Write SQL statement to create the following table: table name : DEPT

DEPTNO	DNAME	LOC
numeric datatype with size 2	varchar datatype with size 15	varchar datatype with size 15

~~DEPTNO - PRIMARY KEY~~

~~DNAME - REQUIRED~~

Ans Create table DEPT (

DEPTNO	numeric(2)	PRIMARY KEY,
DNAME	varchar(15)	not null,
Loc	varchar(15));	

- Q2. Create the following table EMP with constraint declaration.

EMPNO	FNAME	JOB	MGR	HIREDATE	SAL	Comm	DEPTNO
Numeric(4)	varchar(10)	varchar	Numeric	Date	Numeric	Numeric	Numeric(2)
Primary key	Notnull	(9)	(4)		(7,2)	(7,2)	FOREIGN KEY, REFERENCE DEPT

~~Create table EMP (~~

EMPNO numeric (4) PRIMARY KEY,

FNAME varchar (10) NOTNULL,

Date _____

Expt. No. _____

Page No. _____

JOB varchar(9)

MGR numeric(4),

HIRE DATE date,

SAL numeric(7,2),

COMM numeric(7,2),

DEPTNO numeric(2), FOREIGN KEY (DEPTNO) REFERENCES DEPT(DEPTNO) ON DELETE CASCADE);

② Employee

Teacher's Signature : _____

Data manipulation language statement allows you to query, edit, add and remove data stored in database objects.

The primary DML command, you can perform powerful action on the actual data stored in your system.

Insert query

Insert the appropriate data in the employee table . Write an SQL Statement .

Insert table employee (empno, ename, Job, ~~doj~~,
Salary, bonus, deptno) VALUES (1001, 'RUCHI', 'MANAGER',
10000, 500, 10);

Update query

Write the SQL Statement for update the loc into : PUNE where deptno is 10 , from department .

Teacher's Signature : _____

Update department,

SET loc = 'PUNE'

WHERE depno = 10;

Delete query

Write the SQL statement for deleting the data
where loc is DELHI in department table.

Delete from , department

where loc, 'DELHI';

Select Statement

To query information from the database select
database statement are used to retrieve data
from SQL tables.

Semicolon (;) is the execution (or termination
point of the SQL statement)

Retrieves name of all the employees along with
their Job.

Select ename, job from employee

Relational Operation

Retrieves names of all employees who in department number.

Select ename from employee
where deptno = 10;

Retrieve names of all employees with their salary who are earning ~~> 4000~~ and more.

Select ename, salary from employee . where
salary > = 4000;

Logical Operation

Retrieves names of all employees salary and their department number who are earning more than 5000 who work in department number 20.

Select ename , Salary , deptno
from employee . where
Salary > 5000 AND deptno = 20;

Retrieves name of all employees department number and their salary who are working in department number 20 are who are Manager.

~~Select ename , salary , deptno
From employee where deptno = 20 OR job =
MANAGER;~~

~~Ans~~

Other Operations

like operation

Display all the employee name whose names start with 'R'.

Select ename from employees
where ename like 'R%';

NOT Operation

Display all the employee names and their salaries whose salaries are not in the range of 5000 and 6000.

Select ename, salary from employee
where salary NOT BETWEEN 5000 AND 6000;

Between operation

Display all the employee name and their date of joining who have joined between '17-Jan-98' AND '17-Dec-98'

Select ename, DOJ from employee where DOJ
between '17-JAN-98' AND '17-Dec-98';

NVL() in Select Statement

Write SQL statement to display to increase the bonus with ₹100.

Select ename, bonus, NVL(Bonus,0) +100 from employee

Group By

Return the total salary of all employees in each department.

Select deptno, SUM(salary) from department
ORDER BY deptno DESC;

HAVING Clause

Display the average salary of each job, jobwise excluding manager.

Select job, AVG(salary) from employee where job != 'MANAGER' GROUP BY job

Display the total salary of each department whose total salary is greater than 13000

Select deptno, SUM(salary) from employee GROUP BY deptno HAVING SUM(salary) > 13000;

Joins

Retrieve all employee names along with their department names

Select e.ename, d.dname from employee e, department d where e.deptno = d.deptno;

Retrieve all employee numbers and their names who work in RESEARCH department

~~Select e.empno, e.ename from employee e, department d where e.deptno = d.deptno AND d.dname = 'RESEARCH';~~

Retrieve table Employee by using full outer Join with department.

~~Select e.Employee, e.deptno, e.name, d.deptno, d.dname
from Employee e full OUTER JOIN department
d on e.deptno = d.deptno;~~

Retrive table department and employee by
Using RIGHT OUTER JOIN

Select d.dname , e.ename , e.deptno.
From employee e RIGHT OUTER JOIN Department
d On e.deptno = d.deptno;

Retrive table employee and department by
Using LEFT OUTER JOIN.

Select d.deptno , e.employee , e.ename
From department d LEFT OUTER JOIN
employee e ON d.deptno = e.deptno;

(Right)