

Web Application Development Lab

Assignment - 9

MySQL

Create a database with your SIC Number and perform the following tasks from MySQL Console.

1. Create the employee table and insert the records. ENO should be auto increment and primary key.

ENO	ENAME	SALARY	DNO
1	Suman	45000.00	101
2	Aditya	35000.00	102
3	Ankit	42000.00	102
4	Rajan	55000.00	101
5	Ananya	25000.00	103
6	Narayan	60000.00	101
7	Smita	28000.00	103

SQL:-

create table employee(ENO int auto_increment primary key,ENAME varchar(20),SALARY double(10,2),DNO int);

Output:-

Field	Type	Null	Key	Default	Extra
ENO	int(11)	NO	PRI	NULL	auto_increment
ENAME	varchar(20)	YES		NULL	
SALARY	double(10,2)	YES		NULL	
DNO	int(11)	YES		NULL	

insert into employee(ENAME,SALARY,DNO) values ("Suman",45000.00,101);

insert into employee(ENAME,SALARY,DNO) values ("Aditya",35000.00,102);

insert into employee(ENAME,SALARY,DNO) values ("Ankit",42000.00,102);

insert into employee(ENAME,SALARY,DNO) values ("Ranjan",55000.00,101);

insert into employee(ENAME,SALARY,DNO) values ("Ananya",25000.00,103);

insert into employee(ENAME,SALARY,DNO) values ("Narayan",60000.00,101);

insert into employee(ENAME,SALARY,DNO) values ("Smita",28000.00,103);

Output:-

ENO	ENAME	SALARY	DNO
1	Suman	45000.00	101
2	Aditya	35000.00	102
3	Ankit	42000.00	102
4	Ranjan	55000.00	101
5	Ananya	25000.00	103
6	Narayan	60000.00	101
7	Smita	28000.00	103

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2. Create the department table and insert the records. DID must be primary key.

DID	DNAME
101	R&D
102	Accounts
103	HR

SQL:-

create table department(DID int,DNAME varchar(10));

Output:-

Field	Type	Null	Key	Default	Extra
DID	int(11)	YES		NULL	
DNAME	varchar(10)	YES		NULL	

SQL:-

alter table department add primary key(DID);

Output:

Field	Type	Null	Key	Default	Extra
DID	int(11)	NO	PRI	NULL	
DNAME	varchar(10)	YES		NULL	

insert into department values(101,"R&D");

insert into department values(102,"Accounts");

insert into department values(103,"HR");

Output:-

DID	DNAME
101	R&D
102	Accounts
103	HR

3. Display the Employee name, salary and department number.

SQL:-

select ENAME,SALARY,DNO from employee e,department d where e.DNO = d.DID;

Output:-

ENAME	SALARY	DNO
Suman	45000.00	101
Aditya	35000.00	102
Ankit	42000.00	102
Ranjan	55000.00	101
Ananya	25000.00	103
Narayan	60000.00	101
Smita	28000.00	103

4. Display the employee details in descending order of their salary.

SQL:-

select * from employee order by salary desc;

Output:-

ENO	ENAME	SALARY	DNO
6	Narayan	60000.00	101
4	Ranjan	55000.00	101
1	Suman	45000.00	101
3	Ankit	42000.00	102
2	Aditya	35000.00	102
7	Smita	28000.00	103
5	Ananya	25000.00	103

5. Display the total salary expenditure of the company in a year.

SQL:-

select sum(SALARY) as "Total Salary" from employee;

Output:-

Total Salary
290000.00

6. How much salary Ankit is getting?

SQL:-

select SALARY from employee where ENAME = "Ankit";

Output:-

SALARY
42000.00

7. Who are the employee working for dno 101 or 102?

SQL:-

select * from employee where DNO in(101,102);

Output:-

ENO	ENAME	SALARY	DNO
1	Suman	45000.00	101
2	Aditya	35000.00	102
3	Ankit	42000.00	102
4	Ranjan	55000.00	101
6	Narayan	60000.00	101

8. Display the employee id, name and the department name for which they are working.

SQL:-

select ENO,ENAME,DNAME from employee e, department d where e.DNO = d.DID;

Output:-

ENO	ENAME	DNAME
1	Suman	R&D
2	Aditya	Accounts
3	Ankit	Accounts
4	Ranjan	R&D
5	Ananya	HR
6	Narayan	R&D
7	Smita	HR

9. Display the employee details who are working for HR Department.

SQL:-

select * from employee e,department d where d.DNAME = "HR" and e.DNO = d.DID;

Output:-

ENO	ENAME	SALARY	DNO	DID	DNAME
5	Ananya	25000.00	103	103	HR
7	Smita	28000.00	103	103	HR

10. Display the employee details working with Narayan.

SQL:-

select * from employee where dno = (select dno from employee where ename="Narayan");

Output:-

ENO	ENAME	SALARY	DNO
1	Suman	45000.00	101
4	Ranjan	55000.00	101
6	Narayan	60000.00	101

11. Find the employee details who is getting highest salary.

SQL:-

select * from employee where SALARY = (select max(SALARY) from employee);

Output:-

ENO	ENAME	SALARY	DNO
6	Narayan	60000.00	101

12. Display the department wise highest salary and the name of the employee who is getting it.

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SQL:-

select ENAME,max(salary),DNAME from employee e,department d where e.DNO = d.DID group by DNO;

Output:-

ENAME	max(salary)	DNAME
Suman	60000.00	R&D
Aditya	42000.00	Accounts
Ananya	28000.00	Human Reso

13. Give 3% hike to all the employee and update the salary.

SQL:-

update employee set salary = salary+0.03*salary;

Output:-

ENO	ENAME	SALARY	DNO
1	Suman	46350.00	101
2	Aditya	36050.00	102
3	Ankit	43260.00	102
4	Ranjan	56650.00	101
5	Ananya	25750.00	103
6	Narayan	61800.00	101
7	Smita	28840.00	103

14. Update the department name HR to Human Resource.

SQL:-

update department set DNAME = "Human Resource" where DID=103;

Output:-

DID	DNAME
101	R&D
102	Accounts
103	Human Resource

15. Delete the details of Rajan by accessing his employee ID.

SQL:-

delete from employee where ENO = (select ENO from employee where ENAME = "Ranjan");

Output:-

ENO	ENAME	SALARY	DNO
1	Suman	46350.00	101
2	Aditya	36050.00	102
3	Ankit	43260.00	102
5	Ananya	25750.00	103
6	Narayan	61800.00	101
7	Smita	28840.00	103

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