show databases;

create database DB1;

use DB1;

create table Emp

(EMPId numeric primary key,

EName varchar(20) not null,

ESal decimal(10,2) check(ESal>=10000),

Mobile numeric unique not null,

Age int not null,

passport varchar(13) unique);

create table emp\_Bonus(

SiNo int primary key,

bonus numeric check(bonus>1000),

EmpId numeric,

foreign key (EmpId) references Emp(EMPId)

);

create table product(prod\_no int primary key, prod\_name varchar(50) not null, prod\_count int not null);

insert into product (prod\_no,prod\_name,prod\_count) values (001,'fan',23),(002,'fridge',25),(003,'AC',12);

select \* from product;

create table customer\_details(cust\_id int primary key,cust\_name varchar(60),cust\_add varchar(150),cust\_mobileno int not null);

select \* from customer\_details;

insert into customer\_details(cust\_id,cust\_name,cust\_add,cust\_mobileno)

values (1001,'A','bfhjsj',766765824),

(1002,'B','werwerdssf',235134673),

(1003,'C','fhfdcxsc',767463354);

insert into customer\_details(cust\_id,cust\_name,cust\_add,cust\_mobileno)

values (1004,'D','bdfsdfsdj',34565824),

(1005,'E','shdghsgfhsj',92384824),

(1006,'wwe','wesdnbhsf',5137433),

(1007,'hf','fhfdcxsc',767463354);

create table cust\_prod(prod\_id int, foreign key(prod\_id) references product(prod\_no),

cust\_id int, foreign key(cust\_id) references customer\_details(cust\_id),

prod\_cost decimal(10,2),prod\_del\_status boolean);

show tables;

select \* from cust\_prod;

insert into cust\_prod values(002,1002,45000.50,true);

insert into cust\_prod values(001,1001,55000,false);

update cust\_prod set prod\_cost = 65000.75

where prod\_id = 1;

alter table cust\_prod add (prod\_rating decimal(2.1));

alter table cust\_prod modify prod\_rating int;

alter table cust\_prod change prod\_rating prod\_star int;

alter table cust\_prod rename to customer\_prod;

alter table customer\_prod drop column prod\_star;

select \* from customer\_prod;

select count(\*) from customer\_prod;

select cust\_id, cust\_name from customer\_details;

select cust\_id, cust\_name from customer\_details where cust\_id = 1003;

select cust\_id, cust\_name from customer\_details order by cust\_id desc;

select \* from customer\_details limit 3;

select \* from customer\_details;

select \* from customer\_details where cust\_add like 'b%';

select max(cust\_id) from customer\_details;

select avg(cust\_id) from customer\_details;

show databases;

use db1;

show tables;

create table dept(dept\_no int primary key,dept\_name varchar(50),loc varchar(30));

select \* from dept;

insert into dept values(10,'Accounts','chennai'),

(20,'marketing','Bangalore'),

(30,'Finance','chennai'),

(40,'Sales','mumbai'),

(60,'Research','pune'),

(50,'Operation','calcutta');

drop table dept;

set sql\_safe\_updates = 0;

update dept set loc = 'nepal' where dept\_no = 30;

create table salgrade(grade int not null, low\_sal decimal(10,2),high\_sal decimal(10,2));

insert into salgrade values(1,3532.50,6500.00),

(2,4500,6000),(3,5000,7500),(4,5300.50,8000),(5,8001,9000);

select \* from salgrade;

drop table salgrade;

create table emp\_dept(emp\_no numeric primary key, emp\_name varchar(50) not null, job varchar(30),

manager\_code int not null, hire\_date date, sal decimal(10,2) not null,

comm numeric, dept\_no int, foreign key(dept\_no) references dept(dept\_no));

select \* from emp\_dept;

insert into emp\_dept values

(2002,'Alwin','accontant',26,date('1995-04-02'),11500,100,20),

(35,'Ashok','saleman',27,date('1998-05-13'),12500,100,30),

(2004,'Miller','fin',28,date('2000-06-12'),9500,200,40),

(34,'Jothi','offboy',29,date('1999-07-24'),8500,200,10),

(25,'Swathi','salesgirl',30,date('2002-02-01'),10000,100,20),

(26,'Jayam','recp',31,date('1993-03-22'),11000,400,30),

(28,'Rani','analyst',32,date('1996-01-20'),12000,500,50),

(24,'Raja','manager',33,date('2001-04-21'),15000,400,60),

(30,'venkat','senioranalst',34,date('2000-10-24'),10000,200,60),

(27,'Edwar','junioranalst',35,date('2003-09-02'),10500,300,20),

(37,'zion','manager',36,date('1997-08-16'),11000,300,40),

(33,'mellon','pm',37,date('1992-05-15'),10000,400,50);

insert into emp\_dept values(2000,'Salmon','Asst',40,date('1993-03-17'),20000,2000,40);

insert into emp\_dept values(2001,'Akbar','clerk',25,date('1995-09-10'),10500,300,10);

select \* from emp\_dept

where dept\_no = (select dept\_no from dept where loc = 'chennai');

select count(sal),dept\_no,sal from emp\_dept where emp\_name not like 'A%' group by dept\_no,sal having count(sal)>0;

show tables;

drop table if exists emp;

drop table if exists emp\_bonus;

drop table if exists emp\_dept;

drop table if exists dept;

CREATE TABLE emp (

empno decimal(4,0) NOT NULL,

ename varchar(10) default NULL,

job varchar(9) default NULL,

mgr decimal(4,0) default NULL,

hiredate date default NULL,

sal decimal(7,2) default NULL,

comm decimal(7,2) default NULL,

deptno decimal(2,0) default NULL

);

DROP TABLE IF EXISTS dept;

CREATE TABLE dept (

deptno decimal(2,0) default NULL,

dname varchar(14) default NULL,

loc varchar(13) default NULL

);

INSERT INTO emp VALUES ('7369','SMITH','CLERK','7902','1980-12-17','800.00',NULL,'20');

INSERT INTO emp VALUES ('7499','ALLEN','SALESMAN','7698','1981-02-20','1600.00','300.00','30');

INSERT INTO emp VALUES ('7521','WARD','SALESMAN','7698','1981-02-22','1250.00','500.00','30');

INSERT INTO emp VALUES ('7566','JONES','MANAGER','7839','1981-04-02','2975.00',NULL,'20');

INSERT INTO emp VALUES ('7654','MARTIN','SALESMAN','7698','1981-09-28','1250.00','1400.00','30');

INSERT INTO emp VALUES ('7698','BLAKE','MANAGER','7839','1981-05-01','2850.00',NULL,'30');

INSERT INTO emp VALUES ('7782','CLARK','MANAGER','7839','1981-06-09','2450.00',NULL,'10');

INSERT INTO emp VALUES ('7788','SCOTT','ANALYST','7566','1982-12-09','3000.00',NULL,'20');

INSERT INTO emp VALUES ('7839','KING','PRESIDENT',NULL,'1981-11-17','5000.00',NULL,'10');

INSERT INTO emp VALUES ('7844','TURNER','SALESMAN','7698','1981-09-08','1500.00','0.00','30');

INSERT INTO emp VALUES ('7876','ADAMS','CLERK','7788','1983-01-12','1100.00',NULL,'20');

INSERT INTO emp VALUES ('7900','JAMES','CLERK','7698','1981-12-03','950.00',NULL,'30');

INSERT INTO emp VALUES ('7902','FORD','ANALYST','7566','1981-12-03','3000.00',NULL,'20');

INSERT INTO emp VALUES ('7934','MILLER','CLERK','7782','1982-01-23','1300.00',NULL,'10');

INSERT INTO dept VALUES ('10','ACCOUNTING','NEW YORK');

INSERT INTO dept VALUES ('20','RESEARCH','DALLAS');

INSERT INTO dept VALUES ('30','SALES','CHICAGO');

INSERT INTO dept VALUES ('40','OPERATIONS','BOSTON');

select \* from emp;

select \* from dept;

select sal as salary, comm as commission from emp

where sal < 5000;

select \*

from (select sal as salary, comm as commission from emp) x

where salary < 5000;

select \* from salgrade;

select count(sal) as 'emp salary' from emp;

select \* from emp;

select distinct job as Unique\_job from emp;

select sal\*100 bonus\_sal from emp;

SELECT 'HELLO'||ename||'YOUR SALARY is'||SAL FROM EMP;

SELECT \* FROM EMP WHERE COMM IS NULL;

SELECT ENAME FROM EMP WHERE ENAME LIKE '\_A%';

SELECT \* FROM EMP WHERE JOB='CLERK' AND SAL>700;

SELECT \* FROM EMP WHERE JOB='CLERK' OR JOB='ANALYST';

SELECT ENAME, DEPTNO, SAL FROM EMP

ORDER BY DEPTNO DESC;

SELECT CONCAT(ENAME, JOB) FROM EMP;

SELECT REPLACE ('SQL','L','\*') FROM DUAL;

SELECT ROUND (10.4) FROM DUAL;

SELECT MOD (11, 2) FROM DUAL;

select \* from dept;

select \* from emp;

select deptno from emp where job = 'clerk';

select \* from emp where deptno = (select deptno from dept where loc = 'New york');

select dname,loc from dept inner join emp

on emp.deptno = dept.deptno where emp.job = 'clerk';

select \* from dept inner join emp

on emp.deptno = dept.deptno where emp.job = 'manager';

select \* from dept inner join emp

on emp.deptno = dept.deptno where emp.job in ('manager','clerk') and dept.dname = 'Accounting';

select \* from emp join dept

on emp.deptno = dept.deptno

where dept.loc not in ('DALLAS');

update emp set sal = 800 where ename = 'ward';

select \* from emp where sal = (select sal from emp where ename = 'smith');

SELECT DISTINCT sal

FROM emp

ORDER BY sal DESC

LIMIT 1 OFFSET 2;

(SELECT \*

FROM emp

ORDER BY sal desc

LIMIT 2, 1) UNION ALL

(SELECT \*

FROM emp

ORDER BY sal desc

LIMIT 5, 1);

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7369 | SMITH | CLERK | 7902 |  | 800.00 |  | 20 |
| 7499 | ALLEN | SALESMAN | 7698 |  | 1600.00 | 300.00 | 30 |
| 7521 | WARD | SALESMAN | 7698 |  | 800.00 | 500.00 | 30 |
| 7566 | JONES | MANAGER | 7839 |  | 2975.00 |  | 20 |
| 7654 | MARTIN | SALESMAN | 7698 |  | 1250.00 | 1400.00 | 30 |
| 7698 | BLAKE | MANAGER | 7839 |  | 2850.00 |  | 30 |
| 7782 | CLARK | MANAGER | 7839 |  | 2450.00 |  | 10 |
| 7788 | SCOTT | ANALYST | 7566 |  | 3000.00 |  | 20 |
| 7839 | KING | PRESIDENT |  |  | 5000.00 |  | 10 |
| 7844 | TURNER | SALESMAN | 7698 |  | 1500.00 | 0.00 | 30 |
| 7876 | ADAMS | CLERK | 7788 |  | 1100.00 |  | 20 |
| 7900 | JAMES | CLERK | 7698 |  | 950.00 |  | 30 |
| 7902 | FORD | ANALYST | 7566 |  | 3000.00 |  | 20 |
| 7934 | MILLER | CLERK | 7782 |  | 1300.00 |  | 10 |
| |  |  | | --- | --- | | 2175.000000 | 20 | | 1491.666667 | 30 | | 2916.666667 | 10 | |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 7499 |  |  |  |  | 1600.00 | 300.00 | 30 | | 7566 |  |  |  |  | 2975.00 |  | 20 | | 7698 |  |  |  |  | 2850.00 |  | 30 | | 7782 |  |  |  |  | 2450.00 |  | 10 | | 7788 |  |  |  |  | 3000.00 |  | 20 | | 7839 |  |  |  |  | 5000.00 |  | 10 | | 7844 |  |  |  |  | 1500.00 | 0.00 | 30 | | 7902 |  |  |  |  | 3000.00 |  | 20 | |  |  |  |  |  |