create database flight\_database;

use flight\_database;

create table flight(

flno int,

fromm varchar(20),

too varchar(20),

distance int,

departs time,

arrives time,

price real,

primary key(flno));

create table aircraftt(

aid int,

aname varchar(20),

cruisingrange int,

primary key(aid));

create table employee(

eid int,

ename varchar(20),

salary real,

primary key(eid));

create table certified(

eid int,

aid int,

foreign key(eid) references employee(eid),

foreign key (aid) references aircraftt(aid));

select \* from aircraftt;

insert into flight values(1,'bangalore','delhi',500,'6:00:00','9:00:00',5000);

insert into flight values(2,'bangalore','chennai',300,'07:00:00','08:30:00',3000);

insert into flight values(3,'trivandrum','delhi',800,'08:00:00','11:30:00',6000);

insert into flight values(4,'bangalore','frankfurt',10000,'06:00:00','23:30:00',50000);

insert into flight values(5,'kolkata','delhi',2400,'11:00:00','03:30:00',9000);

insert into flight values(6,'bangalore','frankfurt',8000,'09:00:00','23:00:00',40000);

insert into employee values(101,'avinash',50000);

insert into employee values(102,'lokesh',60000);

insert into employee values(103,'rakesh',70000);

insert into employee values(104,'santosh',820000);

insert into employee values(105,'tilak',5000);

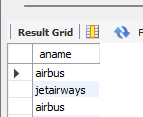
insert into aircraftt values(1,'airbus',2000),(2,'boeing',700),(3,' jetairways',550),(4,'indigo',5000),(5,'boeing',4500),(6,'airbus',2200);

insert into certified values(101,4),(101,5),(101,6),(102,1),(102,3),(102,5),(103,2),(103,3),(103,5),(103,6),(104,6),(104,1),(104,6),(104,3),(105,3);

#1 Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.

select aname from aircraftt a,certified c where

a.aid=c.aid and c.eid in (select e.eid from employee e where e.salary>=80000);

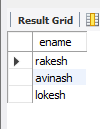


#2 For each pilot who is certified for more than three aircrafts, find the eid and the maximum cruisingrange of the aircraft for which she or he is certified.

select e.eid,max(a.cruisingrange) from employee e, certified c ,aircraftt a

where e.eid=c.eid and a.aid=c.aid

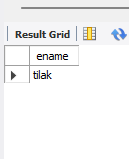
group by e.eid having count(c.aid)>=3;



#3 Find the names of pilots whose salary is less than the price of the cheapest route from Bengaluru to Frankfurt.

select e.ename from employee e

where e.salary<(select min(f.price) from flight f where f.fromm='bangalore' and f.too='frankfurt');

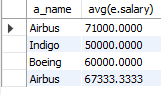


#4For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the average salary of all pilots certified for this aircraft.

select aname,avg(salary) from employee e, certified c, aircraftt a

where a.aid=c.aid and e.eid=c.eid and a.cruisingrange>1000

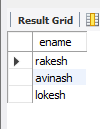
group by a.aid;



#5Find the names of pilots certified for some Boeing aircraft

select distinct e.ename from employee e, certified c, aircraftt a

where a.aname='boeing' and a.aid=c.aid and c.eid=e.eid;



#6Find the aids of all aircraft that can be used on routes from Bengaluru to New Delhi.

select aid from aircraftt a

where cruisingrange >(select distance from flight where fromm ='bangalore' and too= 'delhi' );

