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AIRLINE DATABASE VAISHNAVI KAMATH
create database airlinevck;
use airlinevck;
create table flights(
flno integer,
ffrom varchar(20),
tto varchar(20),
distance integer,
depart time,
arrive time,
price integer,
primary key(flno));
create table aircraft(
aid integer,
aname varchar(20),
cru_range integer,
primary key(aid));
create table employees(
eid integer,
ename varchar(20),
salary integer,
primary key(eid));
create table certified(
eid integer,
aid integer,
primary key(eid,aid),
foreign key(eid) references employees(eid) on update cascade on delete cascade,
foreign key(aid) references aircraft(aid) on update cascade on delete cascade);
insert into employees values (101, 'Avinash',50000), (102, 'Lokesh',60000), (103, 'Rakesh',70000),
(104, 'Santhosh',82000), (105, 'Tilak',5000);
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insert into aircraft values(1,'Airbus',2000),(2,'Boeing',700),(3,'Jet airways',550),(4,'Indigo',5000),(5,'Boeing',4500),(6,'Airbus',2200);

insert into flights values(1,'Bengaluru','New Delhi',500,'06:00:00','09:00:00',5000);

insert into flights

values(2,'Bengaluru','Chennai',300,'07:00:00','08:30:00',3000),(3,'Trivendrum','New Delhi',800,'08:00:00','11:30:00',6000),

(4,'Bengaluru','Frankfurt',10000,'06:00:00','23:30:00',50000),(5,'Kolkata','New Delhi',2400,'11:00:00','03:30:00',9000),(6,'Bengaluru','Frankfurt',8000,'09:00:00','23:00:00',40000);

insert into certified values

(101,2),(101,4),(101,5),(101,6),(102,1),(102,3),(102,5),(103,2),(103,3),(103,5),(103,6),(104,6),(104,1),(104,3),(105,3);

Query1

Find names of aircrafts where pilots authorised to operate them have salary >80000

select aname from aircraft where aid in(select aid from certified where eid in(select eid from employees where salary>80000));



Query 2

For all pilots certified for >3 aircrafts find eid and maximum cruising range

select e.eid ,max(a.cru_range) from employees e,certified c,aircraft a where e.eid=c.eid and c.aid=a.aid group by c.eid having count(c.aid)>=3;



Query 3

Find names of pilots whose sal is less than price of cheapest route from Blore to Frankfurt?

select ename, salary from employees where salary < all(select price from flights where ffrom='Bengaluru'and tto='Frankfurt');



Query 4

For aircrafts with cruizsing range>1000kms find aircraft name and avg salary of all pilots certified to fly it ?

select a.aid,a.aname,avg(e.salary) from employees e,certified c,aircraft a where e.eid=c.eid and c.aid=a.aid and cru_range>1000 group by a.aname,a.aid;



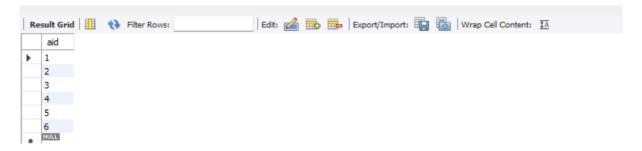
Query 5

Find pilots name certified for some Boeing aircraft?

select ename from employees where eid in(select eid from certified where aid in(select aid from aircraft where aname='Boeing'));



Query 6 Find aids of all aircrafts that can be used for routes from Bangalore to New Delhi?



select aid from aircraft where cru_range> (select distance from flights where ffrom='Bengaluru' and tto='New Delhi');