```
create database 44_airline_flight;
use 44 airline flight;
create table flights(
flno int,
ffrom varchar(50),
tto varchar(50),
distance int,
departs time,
arrives time,
price int,
primary key(flno));
create table aircraft(
aid int,
aname varchar(50),
cruisingrange int,
primary key(aid));
create table employee(
eid int,
ename varchar(50),
salary int,
primary key(eid));
create table certified(
eid int, aid int,
foreign key(aid) references aircraft(aid)
on update cascade on delete cascade,
foreign key(eid) references employee(eid)
on update cascade on delete cascade);
insert into employee values
(101, 'Avinash', 50000),
(102, 'Lokesh', 60000),
(103, 'Rakesh', 70000),
(104, 'Santhosh', 82000),
(105, 'Tilak', 5000);
insert into aircraft values
(1, 'Airbus', 2000),
(2, 'Boeing', 700),
(3,'JetAirways',550),
(4, 'Indigo', 5000),
(5, 'Boeing', 4500),
(6, 'Airbus', 2200);
```

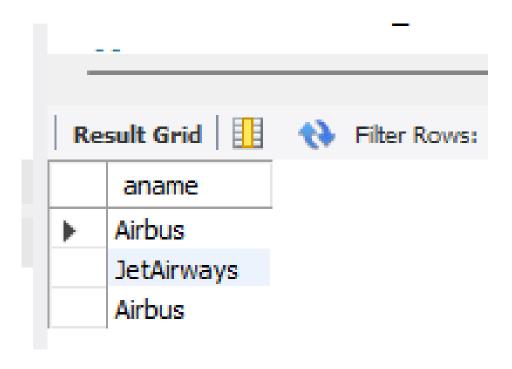
Week 8 Airline database 1BM21CS044

```
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);

insert into flights values
(1,'Banglore','New Delhi',500,'6:00','9:00',5000),
(2,'Banglore','Chennai',300,'7:00','8:30',3000),
(3,'Trivandrum','New Delhi',800,'8:00','11:30',6000),
(4,'Banglore','Frankfurt',10000,'6:00','23:30',50000),
(5,'Kolkata','New Delhi',2400,'11:00','3:30',9000),
(6,'Banglore','Frankfurt',8000,'9:00','23:00',40000)
```

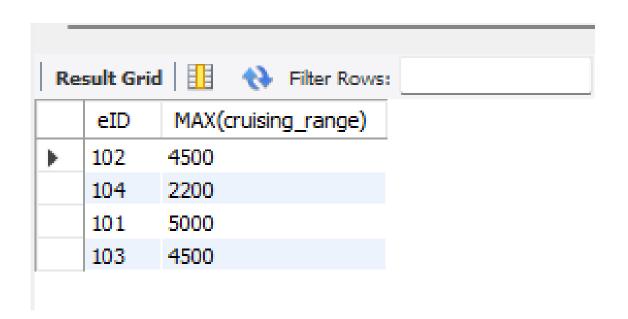
1. Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.

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



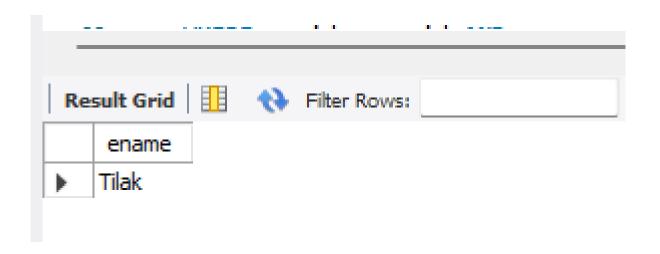
2. For each pilot who is certified for more than three aircrafts, find the eid and the maximum cruising range of the aircraft for which she or he is certified

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



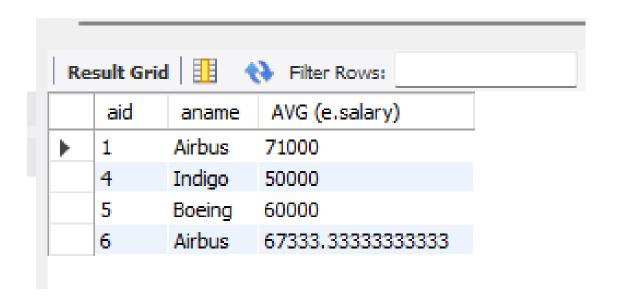
3. Find the names of pilots whose salary is less than the price of the cheapest route from Bengaluru to Frankfurt.

select e.ename from employee e where e.salary<(select min(price)from flights where ffrom='Banglore'and tto='Frankfurt');



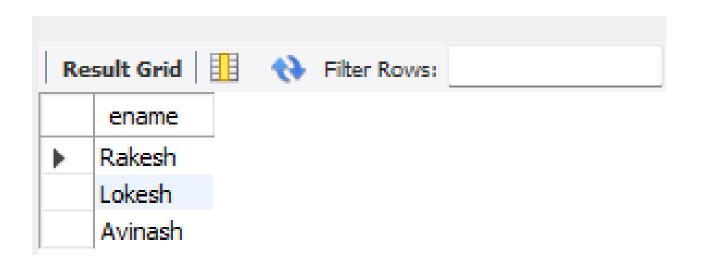
4. For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the average salary of all pilots certified for this aircraft.

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



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

select e.ename from employee e
where e.eid in(
select distinct c.eid from certified c
where c.aid in(
select a.aid from aircraft a
where a.aname='Boeing'))
order by e.ename desc;



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

select a.aid from aircraft a
where a.cruisingrange>(select f.distance from flights f
where f.ffrom='Banglore' and f.tto='New Delhi');

