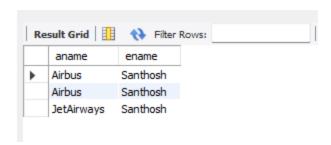
WEEK-8

```
create database airline flight;
use airline_flight;
create table employees
eid int primary key,
ename varchar(20),
salary int
);
insert into employees values
(101,'Avinash',50000),(102,'Lokesh',60000),(103,'Rakesh',70000),(104,'San
thosh',82000),(105,'Tilak',5000);
select * from employees;
create table aircraft
aid int primary key,
aname varchar(20),
cruising range int
);
insert into aircraft values
(1,'Airbus',2000),(2,'Boeing',700),(3,'JetAirways',550),(4,'Indigo',5000),(5,'B
oeing',4500),(6,'Airbus',2200);
select * from aircraft;
create table certified
eid int,
aid int.
foreign key(eid) references employees(eid) on delete cascade on update
cascade,
```

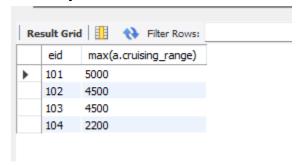
```
foreign key(aid) references aircraft(aid) on delete cascade on update
cascade
);
insert into certified values
(101,2),(101,4),(101,5),(101,6),(102,1),(102,3),(102,5),(103,2),(103,3),(103,6)
5),(103,6),(104,6),(104,1),(104,3),(105,3);
select * from certified:
create table flights
flno int primary key,
from varchar(20),
to varchar(20),
distance int.
departs time,
arrives time.
price int
);
insert into flights values(1,'Bengaluru','New Delhi',500,'6:00','9:00',5000);
insert into flights values(2, 'Bengaluru', 'Chennai', 300, '7:00', '8:30', 3000);
insert into flights values(3,'Trivandrum','New Delhi',800,'8:00','11:30',6000);
insert into flights
values(4,'Bengaluru','Frankfurt',10000,'6:00','23:30',50000);
insert into flights values(5, 'Kolkata', 'New Delhi', 2400, '11:00', '3:30', 9000);
insert into flights values(6, 'Bengaluru', 'Frankfurt', 8000, '9:00', '23:00', 40000);
select * from flights;
-- #1 Find the names of aircraft such that all pilots certified to operate
them have salaries more than Rs.80,000.
select a.aname, e.ename
from aircraft a, certified c, employees e
where a.aid=c.aid and c.eid=e.eid and c.eid in (select eid from employees
```

where salary>80000);



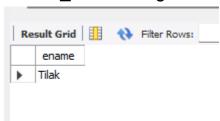
-- #2 For each pilot who is certified for more than three aircrafts, find the eid and the maximum cruisingrange of the aircraft for which she or he is certified.

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



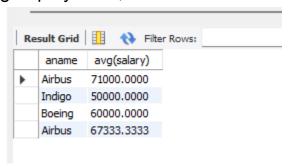
-- #3 Find the names of pilots whose salary is less than the price of the cheapest route from Bengaluru to Frankfurt.

select ename from employees where salary<(select min(price) from flights where _from='Bengaluru' and _to='Frankfurt');



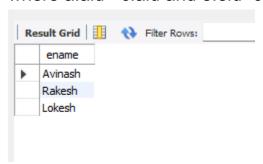
-- #4For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the average salary of all pilots certified for this aircraft.

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



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

select distinct ename from employees e,certified c,aircraft a where a.aid =c.aid and e.eid=c.eid and aname='boeing';



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

select aid from aircraft where cruising_range > all(select distance from flights where _from='Bengaluru' and _to='Delhi');

