WEEK 8

create database Airline; use Airline; create table flights(flno int, from1 varchar(50), to1 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);

```
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);

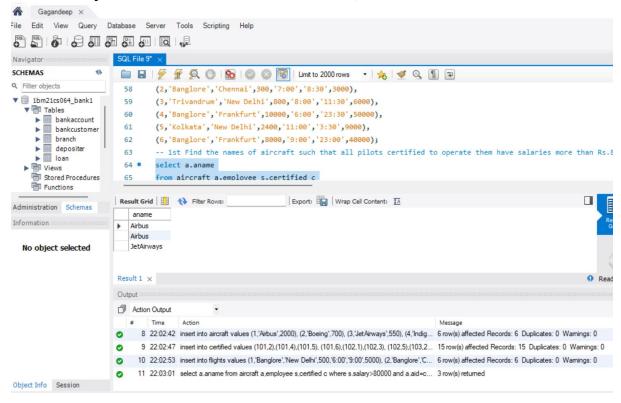
QUERIES:

-- 1st 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,employee s,certified c

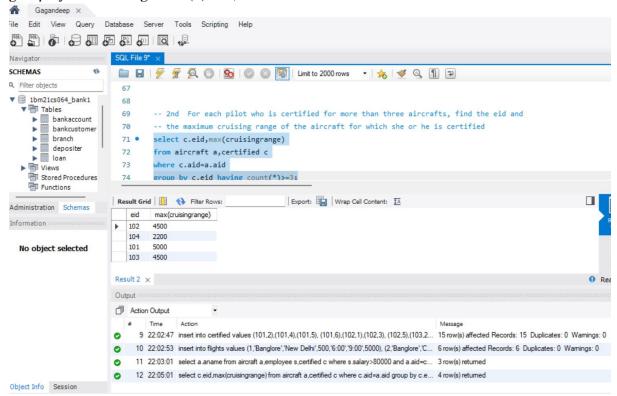
where s.salary>80000 and a.aid=c.aid and c.eid=s.eid;



- -- 2nd 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 aircraft a, certified c

where c.aid=a.aid group by c.eid having count(*)>=3;



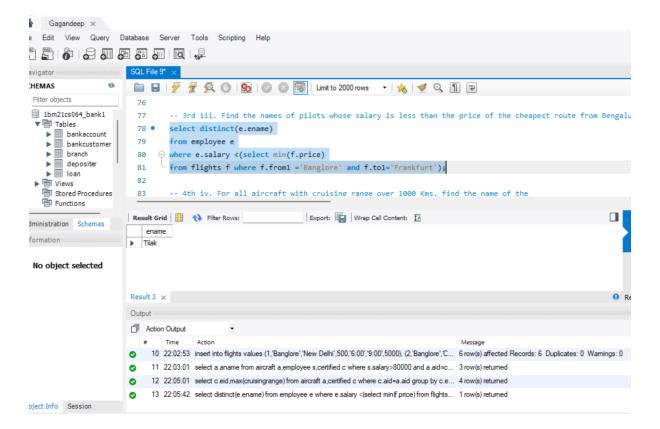
-- 3rd iii. Find the names of pilots whose salary is less than the price of the cheapest route from Bengaluru to Frankfurt.

select distinct(e.ename)

from employee e

where e.salary <(select min(f.price)

from flights f where f.from1 ='Banglore' and f.to1='Frankfurt');

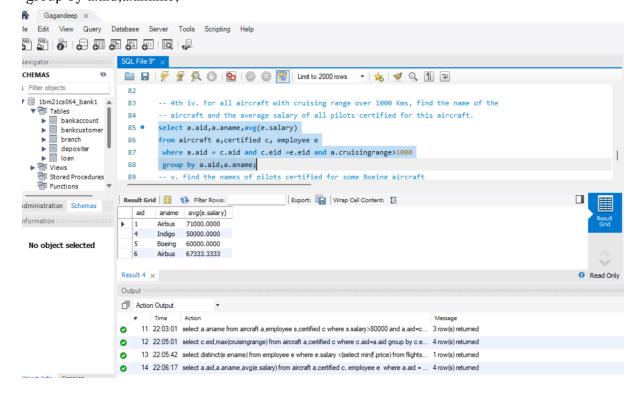


- -- 4th iv. For all aircraft with cruising range over 1000 Kms, find the name of the
- -- aircraft and the average salary of all pilots certified for this aircraft.

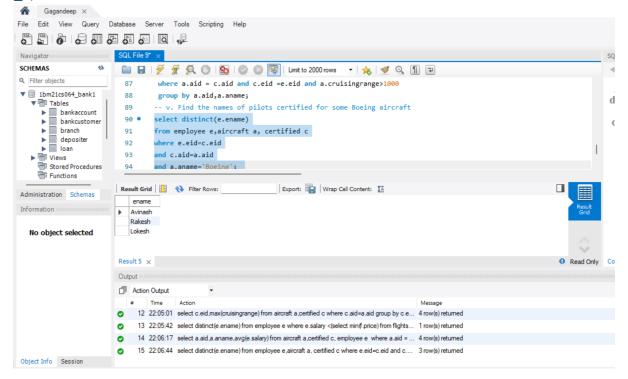
select a.aid,a.aname,avg(e.salary)

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,a.aname;



-- v. Find the names of pilots certified for some Boeing aircraft select distinct(e.ename) from employee e,aircraft a, certified c where e.eid=c.eid and c.aid=a.aid and a.aname='Boeing';



-- vi. 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 min(f.distance) from flights f where f.from1='Banglore' and f.to1='New Delhi');

