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Swastik week8 dbms
create database airlineflight;
use airlineflight;
create table FLIGHT(
flno int(5),
ffrom varchar(20),
tto varchar(20),
distance int(10),
departs time,
arrives time,
price int(10),
primary key(flno));
create table AIRCRAFT(
aid int(10),
aname varchar(20),
cruising_range int(10),
primary key(aid));
create table EMPLOYEE(
eid int(10),
ename varchar(20),
salary int(10),
primary key(eid)
);
create table CERTIFIED(
eid int(10),
aid int(10),
foreign key(aid) references AIRCRAFT(aid),
foreign key(eid) references EMPLOYEE(eid));
insert into FLIGHT values(1,'bengaluru','newdelhi',500,'6:00','9:00',5000),
(2,'bengaluru','chennai',300,'7:00','8:30',3000),
(3,'trivandrum','newdelhi',800,'8:00','11:30',6000),
(4,'bengaluru','frankfurt',10000,'6:00','23:30',50000),
(5,'kolkata','newdelhi',2400,'11:00','3:30',9000),
(6,'bengaluru','frankfurt',8000,'9:00','23:00',40000);
insert into AIRCRAFT values
(1,'airbus',2000),(2,'boeing',700),
(3,'jetairways',550),(4,'indigo',5000),
```

### (5,'boeing',4500),(6,'airbus',2200);

## insert into EMPLOYEE values (101, 'avinash', 50000),

(102, 'lokesh;', 60000),

(103, 'rakesh', 70000),

(104, 'santosh', 82000),

(105, 'tilak', 5000);

### 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);

#### alter table CERTIFIED

add constraint

foreign key(aid) references aircraft(aid) on update cascade on delete cascade;

#### alter table CERTIFIED

add constraint

foreign key(eid) references EMPLOYEE(eid) on update cascade on delete cascade;

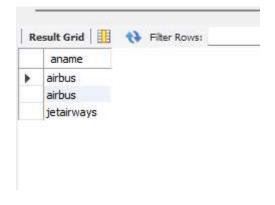
## i. Find the names of aircraft such that all pilots certified to operate them have salaries more than

#### Rs.80,000.

select a aname

from AIRCRAFT a,certified c,employee e

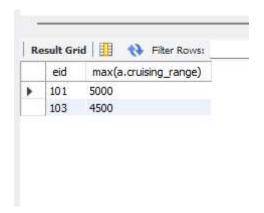
where a.aid=c.aid and c.eid=e.eid and e.salary > 80000;



## ii. 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 c.eid, max(a.cruising\_range) from certified c, aircraft a where c.aid=a.aid group by c.eid having count(c.aid)>3;



### iii. Find the names of pilots whose salary is less than the price of the cheapest route from

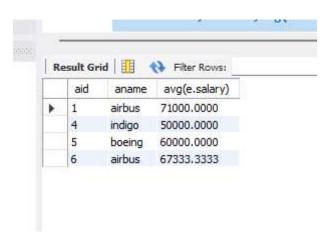
### Bengaluru to Frankfurt.

select ename from employee where salary<(select min(price) from flight where ffrom='bengaluru'and tto='frankfurt');



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

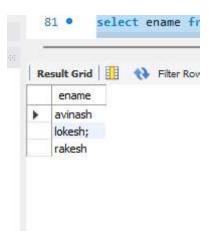
select a.aid,a.aname,avg(e.salary)
from aircraft a, certified c,employee e
where a.aid=c.aid and c.eid= e.eid and a.cruising\_range>1000
group by a.aid;



## v. Find the names of pilots certified for some Boeing aircraft.

select ename from employee

where eid in (select c.eid from certified c, aircraft a where 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.cruising\_range>(select distance
from flight where ffrom='bengaluru' and tto='newdelhi');

