VAIBHAVI PATIL
1BM19CS217
CSE SEC "A"

AIRLINE FLIGHT DATABASE
SOURCE CODE

```sql
create database airlinedb;
use airlinedb;

create table FLIGHTS(
flno int,
fromplace varchar(20),
toplace  varchar(20),
distance integer,
departs datetime,
arrives datetime,
price int,
primary key(flno)
);
create table AIRCRAFT(
aid int,
aname varchar(20),
cruisingrange int,
primary key (aid)
);
create table EMPLOYEES(
eid int,
ename varchar(20),
salary int,
primary key (eid)
);

create table certified(
eid int,
aid int,
foreign key (eid) references employees(eid),
foreign key (aid) references aircraft(aid)
);


insert into aircraft values
("101","747","3000"),("102","Boeing","900"),("103","647","800"),("104","Dreamliner","10000"),("1
05","Boeing","3500"),("106","707","1500"),("107","Dream","120000");
```

```sql
select * from aircraft;

insert into flights values("101","Banglore","Delhi","2500","05/05/13 07.15.31","05/05/13 07.15.31","5000"),("102","Banglore","Lucknow","3000","05/05/13 07.15.31","05/05/13 11.15.31","6000"),("103","Lucknow","Delhi","500","05/05/13 12.15.31","05/05/13 17.15.31","3000"),
("107","Banglore","Frankfrut","8000","05/05/13 07.15.31","05/05/13 22.15.31","60000"),
("104","Banglore","Frankfrut","8500","05/05/13 07.15.31","05/05/13 23.15.31","75000"),
("105","Kolkata","Delhi","3400","05/05/13 07.15.31","05/05/13 09.15.31","7000");
select * from flights;

insert into employees values
("701","A","50000"),("702","B","100000"),("703","C","150000"),("704","D","90000"),("705","E","40000"),("706","F","60000"),("707","G","90000");
select * from employees;

insert into certified
values("701","101"),("701","102"),("701","106"),("701","105"),("702","104"),("703","104"),("704","104"),("702","107"),("703","107"),("704","107"),("702","101"),("703","105"),("704","105"),("705","103");
select * from certified;

select distinct A.aname from aircraft A where A.aid  in (select C.aid from certified C,Employees E where C.eid=E.eid and not exists (select * from employees E1 where E1.eid=E.eid and E1.salary<80000));

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

select A.aname,A.cruisingrange,avg(E.salary) from aircraft A,employees E,Certified C where C.eid=E.eid and C.aid=A.aid group by A.aname having A.cruisingrange>1000;
select distinct E.ename from employees E where E.salary <(select min(F.price) from flights F where F.fromplace="Banglore" and F.toplace="Frankfrut");

select distinct E.ename from employees E,certified C,aircraft A where E.eid = C.eid and C.aid =A .aid and A.aname LIKE "Boeing";

select A.aid from aircraft A where A.cruisingrange  > (select min(F.distance) from flights F where F.fromplace = "Banglore" and F.toplace = "Delhi");
```