```
create database f;
use f;
create table flight(
flno int,
fromm varchar(20),
too varchar(20),
distance int,
departs time,
arrives time,
price real,
primary key(flno));

create table aircraftt(
aid int,
aname varchar(20),
cruisingrange int,
primary key(aid));

create table employee(
eid int,
ename varchar(20),
salary real,
primary key(eid));

create table certified(
eid int,
aid int,
foreign key(eid) references employee(eid),
foreign key (aid) references aircraftt(aid));

insert into flight values(1,'bangalore','delhi',500,'06:00:00','09:00:00',5000);
insert into flight values(2,'bangalore','chennai',300,'07:00:00','08:50:00',3000);
insert into flight values(3,'trivandrum','delhi',800,'08:00:00','11:30:00',6000);
insert into flight values(4,'bangalore','frankfurt',10000,'06:00:00','23:30:00',50000);
insert into flight values(5,'kolkata','delhi',2400,'11:00:00','03:30:00',9000);
insert into flight values(6,'bangalore','frankfurt',8000,'09:00:00','23:00:00',40000);

insert into employee values(101,'avinash',50000);
insert into employee values(102,'lokesh',60000);
insert into employee values(103,'rakesh',70000);
insert into employee values(104,'santosh',820000);
insert into employee values(105,'tilak',5000);

insert into aircraftt values(1,'airbus',2000),(2,'boeing',700),(3,'        jetairways',550)
```

```
,(4,'indigo',5000),(5,'boeing',4500),(6,'airbus',2200);

insert into certified values(101,4),(101,5),(101,6),(102,1),(102,3),(102,5)
,(103,2),(103,3),(103,5),(103,6),(104,6),(104,1),(104,6),(104,3),(105,3);
insert into certified values(101,2);

select * from flight;
select * from aircraftt;
select * from employee;
select * from certified;
```

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

```
select aname from aircraftt a, employee e, certified c
where e.eid= c.eid and a.aid=c.aid and e.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.cruisingrange) from employee e, certified c ,aircraftt a
where e.eid=c.eid and a.aid=c.aid
group by e.eid having count(a.aid)>3;
```

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

```
select ename from employee e
where salary< (select min(price) from flight where too='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 a.aid, a.aname,avg(e.salary) from employee e, certified c, aircraftt a
where a.aid=c.aid and e.eid=c.eid and a.cruisingrange>1000
group by a.aid;
```

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

```
select distinct ename from employee e,certified c,aircraftt 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 aircraftt a
where cruisingrange >(select distance from flight where fromm ='bangalore' and too= 'delhi' );
```

OUTPUT

1)

```
57 •  select aname from aircraftt a, employee e, certified c
58    where e.eid= c.eid and a.aid=c.aid and e.salary>80000;
59
60    #2 For each pilot who is certified for more than three aircrafts, t
61 •  select e.eid,max(a.cruisingrange) from employee e, certified c ,air
62    where e.eid=c.eid and a.aid=c.aid
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

aname
airbus
jetairways
airbus
airbus
airbus
jetairways

2)

```
60    #2 For each pilot who is certified for more than three aircrafts, find the eid an
61 •  select e.eid,max(a.cruisingrange) from employee e, certified c ,aircraftt a
62    where e.eid=c.eid and a.aid=c.aid
63    group by e.eid having count(a.aid)>3;
64
65    #3 Find the names of pilots whose salary is less than the price of the cheapest r
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

eid	max(a.cruisingrange)
101	5000
102	4500
103	4500
104	2200

3)

```
#5 Find the names of pilots whose salary is less than the price of the cheape
select ename from employee e
where salary< (select min(price) from flight where too='frankfurt');

#4For all aircraft with cruising range over 1000 Kms, find the name of the air
select a.aid, a.aname,avg(e.salary) from employee e, certified c, aircraftt a
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ename
tilak

4)

```
#4For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and
select a.aid, a.aname,avg(e.salary) from employee e, certified c, aircraftt a
where a.aid=c.aid and e.eid=c.eid and a.cruisingrange>1000
group by a.aid;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

aid	aname	avg(e.salary)
1	airbus	440000
4	indigo	50000
5	boeing	60000
6	airbus	440000

5)

```
#5Find the names of pilots certified for some Boeing aircraft
select distinct ename from employee e,certified c,aircraftt a
where a.aid =c.aid and e.eid=c.eid and aname='boeing';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ename
rakesh
avinash
lokesh

6)

```
78    #6Find the aids of all aircraft that can be used on routes from Bengaluru to New Delhi.
79    select aid from aircraftt a
80    where cruisingrange >(select distance from flight where fromm ='bangalore' and too= 'delhi' );
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

aid
1
2
3
4
5
6
NULL

aircraftt 43

Output