

CODE:

CREATE TABLE AIRCRAFT

(AID INTEGER PRIMARY KEY,  
ANAME VARCHAR(10),  
CRUISINGRANGE INTEGER);

CREATE TABLE EMPLOYEES

(EID INTEGER PRIMARY KEY,  
ENAME VARCHAR(15),  
SALARY int);

CREATE TABLE CERTIFIED

(EID INTEGER NOT NULL,  
AID INTEGER NOT NULL,  
PRIMARY KEY (EID, AID),  
FOREIGN KEY (EID) REFERENCES EMPLOYEES (EID),  
FOREIGN KEY (AID) REFERENCES AIRCRAFT (AID));

select \* from certified;

select \* from employees;

select \* from aircraft;

select \* from flights;

select e.ename from employees e where e.salary<(select min(f.price) from flights f where  
f.ffrom='Bangalore'

and f.tto='Frankfurt');

select 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 e.salary<80000));

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

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

```
select distinct e.ename from aircraft a,employees e,certified c 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.ffrom = 'Bangalore' AND F.tto = 'Frankfurt' );
```

```
select e.ename,e.salary from employees e where e.eid not in (select c.eid from certified c) and
e.salary>
```

```
(select avg(e1.salary) from employees e1 where e1.eid in (select distinct c1.eid from certified c1));
```

### certified

	EID	AID
►	701	101
	701	102
	701	105
	701	106
	702	101
	702	104
	702	107
	703	104
	703	105
	703	107
	704	104

## employees

	EID	ENAME	SALARY
▶	701	A	50000
	702	B	100000
	703	C	150000
	704	D	90000
	705	E	40000
	706	F	60000
	707	G	90000
*	NULL	NULL	NULL

## aircrafts

	AID	ANAME	CRUISINGRANGE
▶	101	747	3000
	102	Boeing	900
	103	647	800
	104	Dreamliner	10000
	105	Boeing	3500
	106	707	1500
	107	Dream	120000
*	NULL	NULL	NULL

## flights.

	FLNO	FFROM	TTO	DISTANCE	DEPARTS	ARRIVESS	PRICE
▶	101	Bangalore	Delhi	2500	2005-05-13 07:15:31	2005-05-13 17:15:31	5000
	102	Bangalore	Lucknow	3000	2005-05-13 07:15:31	2005-05-13 11:15:31	6000
	103	Lucknow	Delhi	500	2005-05-13 12:15:31	2005-05-13 17:15:31	3000
	104	Bangalore	Frankfurt	8500	2005-05-13 07:15:31	2005-05-13 23:15:31	75000
	105	Kolkata	Delhi	3400	2005-05-13 07:15:31	2005-05-13 09:15:31	7000
	107	Bangalore	Frankfurt	8000	2005-05-13 07:15:31	2005-05-13 22:15:31	60000

## Query Results:

### Query 1

	ename
▶	A
	E

### Query 2

	aname
▶	747
	Dreamliner
	Boeing
	Dream

### Query 3

	eid	max(a.cruisingrange)
▶	701	3500

#### Query 4

Result Grid			Filter Rows:	
	aname	avg(e.salary)		
▶	747	75000.0000		
	Dreamliner	113333.3333		
	Boeing	96666.6667		
	707	50000.0000		
	Dream	113333.3333		

#### Query 5

Result Grid			
	ename		
▶	A		
	C		
	D		

#### Query 6

	aid
▶	104
	107

#### Query 7

	ename	salary
▶	G	90000