## **AIRLINE DATABASE**

### **FLIGHTS**

create table flights(
flno int,
ffrom varchar(20),
tto varchar(20),
distance int,
depart timestamp,
arrives timestamp,
price int,
primary key(flno));

### **AIRCRAFTS**

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

# **EMPLOYESS**

create table employess(
eid int,
ename varchar(20),
salary int,
primary key(eid));
drop table certified;

### **CERTIFIED**

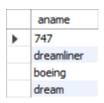
create table certified(

```
eid int,
aid int,
primary key(eid,aid),
foreign key(eid) references employess(eid),
foreign key(aid) references aircrafts(aid));
SELECT * from employess;
INSERT INTO 'movie'. 'flights' ('flno', 'ffrom', 'tto', 'distance', 'depart', 'arrives', 'price') VALUES
('101', 'bangalore', 'delhi', '2500', '05/05/13 07:15:31.000000000', '05/05/13 17:15:31.000000000',
'5000');
INSERT INTO 'movie'. 'aircrafts' ('aid', 'aname', 'cruisingrange') VALUES ('101', '747', '3000');
INSERT INTO 'movie'. 'aircrafts' ('aid', 'aname', 'cruisingrange') VALUES ('102', 'boeing', '900');
INSERT INTO 'movie'. 'aircrafts' ('aid', 'aname', 'cruisingrange') VALUES ('103', '647', '800');
INSERT INTO 'movie'. 'aircrafts' ('aid', 'aname', 'cruisingrange') VALUES ('104', 'dreamliner', '10000');
INSERT INTO 'movie'. 'aircrafts' ('aid', 'aname', 'cruisingrange') VALUES ('105', 'boeing', '3500');
INSERT INTO 'movie'. 'aircrafts' ('aid', 'aname', 'cruisingrange') VALUES ('106', '707', '1500');
INSERT INTO `movie`. `aircrafts` (`aid`, `aname`, `cruisingrange`) VALUES ('107', 'dream', '120000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('701', 'A', '50000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('702', 'B', '100000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('703', 'C', '150000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('704', 'D', '90000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('705', 'E', '40000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('706', 'F', '60000');
INSERT INTO 'movie'. 'employess' ('eid', 'ename', 'salary') VALUES ('707', 'G', '90000');
```

select \* from certified;

```
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('701', '101');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('701', '102');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('701', '106');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('701', '105');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('702', '104');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('703', '104');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('704', '104');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('702', '107');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('703', '107');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('704', '107');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('702', '101');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('703', '105');
INSERT INTO `movie`.`certified` ('eid`, 'aid`) VALUES ('704', '105');
```

select distinct aname from aircrafts
where aid in(select c.aid from certified c,
employess e where c.eid=e.eid and
not exists( select \* from employess e1 where e1.eid=e.eid
and e1.salary<80000));



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

	eid	max(a.cruisingrange)
•	701	3500

select ename from employess

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

flights f where f.ffrom='bangalore' and f.tto='frankfurt');



select a.aname, e.salary from
aircrafts a,employess e, certified c where
c.aid=a.aid and c.eid=e.eid and a.cruisingrange>1000

group by a.aid,a.aname;

	aname	salary
•	747	50000
	dreamliner	100000
	boeing	50000
	707	50000
	dream	100000

select temp.name, temp.avgsalary

from ( select a.aid, a.aname as name, avg (e.salary) as avgsalary from aircrafts a, certified c, employess e where a.aid = c.aid and c.eid = e.eid and a.cruisingrange > 1000 group by a.aid, a.aname ) temp;

	name	avgsalary
•	747	75000.0000
	dreamliner	113333.3333
	boeing	96666.6667
	707	50000.0000
	dream	113333.3333

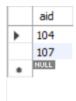
select distinct e.ename from employess e, certified c, aircrafts a where e.eid=c.eid and c.aid=a.aid and a.aname like 'boeing%';



select aid from aircrafts a

where a.cruisingrange>(select min(f.distance) from

flights f where f.ffrom='bangalore' and f.tto='frankfurt');



select f.depart

from flights f

where f.flno in ( ( select f0.flno

from flights f0

where f0.ffrom = 'bangalore' and f0.tto = 'delhi'

and extract(hour from f0.arrives) < 18)

union

( select f0.flno

from flights f0, flights f1

where f0.ffrom = 'bangalore' and f0.tto <> 'delhi'

and f0.tto = f1.ffrom and f1.tto = 'delhi'

and f1.depart > f0.arrives

and extract(hour from f1.arrives) < 18)

union

( select f0.flno

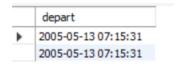
from flights f0, flights f1, flights f2

where f0.ffrom = 'bangalore'

and f0.tto = f1.ffrom

and f1.tto = f2.ffrom

and f2.tto = 'delhi'
and f0.tto <> 'delhi'
and f1.tto <> 'delhi'
and f1.depart > f0.arrives
and f2.depart > f1.arrives
and extract(hour from f2.arrives) < 18));</pre>



select e.ename, e.salary

from employess e

where e.eid not in ( select distinct c.eid

from certified c)

and e.salary > (select avg (e1.salary)

from employess e1

where e1.eid in

( select distinct c1.eid

from certified c1));

