AIRLINE DATABASE OUTPUT:-

SHOW TABLES:-

```
12 •   create table certified(eid int, aid int, primary key(eid ,aid), foreign key(eid) references employee(eid) on delete cascade, foreign key(aid) references aircraft(aid) on delete
13
14 •   show tables;
15 •   insert into flights (flno,fl_from,fl_to,distance,departs,arrives,price) values
16             (1,'Bangalore','Mangalore',360,'10:45:00','12:00:00',10000),
17             (2,'Bangalore','Delhi',5000,'12:15:00','16:30:00',25000),
18             (3,'Bangalore','Mumbai',3500,'14:15:00','17:25:00',30000),
19             (4,'Delhi','Mumbai',4500,'10:15:00','12:05:00',35000),
20             (5,'Delhi','Frankfurt',18000,'07:15:00','05:30:00',90000),
```

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

Tables_in_airlines
aircraft
certified
employee
flights

SELECT * FROM FLIGHTS;

```
17             (2,'Bangalore','Delhi',5000,'12:15:00','16:30:00',25000),
18             (3,'Bangalore','Mumbai',3500,'14:15:00','17:25:00',30000),
19             (4,'Delhi','Mumbai',4500,'10:15:00','12:05:00',35000),
20             (5,'Delhi','Frankfurt',18000,'07:15:00','05:30:00',90000),
21             (6,'Bangalore','Frankfurt',19500,'10:00:00','07:45:00',95000),
22             (7,'Bangalore','Frankfurt',17000,'12:00:00','06:30:00',99000),
23             (8, 'Madison','New York', 10000, '12:00:00','18:00:00',75000);
24
25 •   select * from flights;
```

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

flno	fl_from	fl_to	distance	departs	arrives	price
1	Bangalore	Mangalore	360	10:45:00	12:00:00	10000
2	Bangalore	Delhi	5000	12:15:00	16:30:00	25000
3	Bangalore	Mumbai	3500	14:15:00	17:25:00	30000
4	Delhi	Mumbai	4500	10:15:00	12:05:00	35000
5	Delhi	Frankfurt	18000	07:15:00	05:30:00	90000
6	Bangalore	Frankfurt	19500	10:00:00	07:45:00	95000
7	Bangalore	Frankfurt	17000	12:00:00	06:30:00	99000
8	Madison	New York	10000	12:00:00	18:00:00	75000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM AIRCRAFT;

```
28                 (123,'Airbus',1000),
29                 (302,'Boeing',5000),
30                 (306,'Jet01',5000),
31                 (378,'Airbus380',8000),
32                 (456,'Aircraft',500),
33                 (789,'Aircraft02',800),
34                 (951,'Aircraft03',1000);
35
36  ●     select * from aircraft;
```

Result Grid | Filter Rows: | E

aid	aname	cruisingrange
123	Airbus	1000
302	Boeing	5000
306	Jet01	5000
378	Airbus380	8000
456	Aircraft	500
789	Aircraft02	800
951	Aircraft03	1000
NULL	NULL	NULL

SELECT * FROM EMPLOYEE;

```
42                    (4,'Harry',45000),
43                    (5,'Ron',90000),
44                    (6,'Josh',75000),
45                    (7,'Ram',100000);
46
47  ●    insert into employee values(207, 'Ramesh', 100000);
48
49  ●    select * from employee;
50
```

Result Grid | Filter Rows: | Edit: | Export

eid	ename	salary
1	Ajay	30000
2	Ajith	85000
3	Arnab	50000
4	Harry	45000
5	Ron	90000
6	Josh	75000
7	Ram	100000
207	Ramesh	100000
NULL	NULL	NULL

SELECT * FROM CERTIFIED

```
65                    (6,789),
66                    (3,951),
67                    (1,951),
68                    (1,789);
69
70 ●     select * from certified;
71
72       -- Q1
73
```

eid	aid
1	123
2	123
1	302
5	302
7	302
1	306
2	306
1	378
2	378
4	378

```
72      -- Q1

73

74 •    select distinct a.aname from aircraft a, certified c, employee e

75      where a.aid=c.aid

76      and c.eid=e.eid

77      and not exists (select * from employee e2 where e2.eid=e.eid and e2.salary<80000);

78
```

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

aname
▶ Airbus
Boeing
Jet01
Airbus380
Aircraft02

```
79      -- Q2
80 •    select c.eid, max(cruisingrange) from certified c, aircraft a where c.aid = a.aid group by c.eid having count(*) > 3;
81
82      -- Q3
83 •    select distinct e.ename from employee e where e.salary < (select min(f.price) from flights f where f.fl_from='Bangalore'and f.fl_to='Frankfurt');
84
```

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

eid	max(cruisingrange)
▶ 1	8000

```
82      -- Q3
83 •    select distinct e.ename from employee e where e.salary < (select min(f.price) from flights f where f.fl_from='Bangalore'and f.fl_to='Frankfurt');
84
```

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

ename
▶ Ajay
Ajith
Arnab
Harry
Ron
Josh

```
85      -- Q4
86
87 •    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.cruisingrange>1000 group by a.aid, a.aname;
88
89      -- Q5
90
91 •    select distinct e.ename
92          from employee e,aircraft a,certified c
93          where e.eid=c.eid
```

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

aid	aname	avg(e.salary)
302	Boeing	73333.3333
306	Jet01	57500.0000
378	Airbus380	53333.3333

```
89          -- Q5

90

91  •   select distinct e.ename

92          from employee e,aircraft a,certified c

93          where e.eid=c.eid

94          and c.aid=a.aid

95          and a.aname='Boeing';

96
```

Result Grid | Filter Rows: | Export: | V

ename
Ajay
Ron
Ram

```
97          -- Q6
98
99  •     select a.aid
100            from aircraft a
101            where a.cruisingrange>
102  ⊖        (select MIN(f.distance)
103            from flights f
104            where f.fl_from='Bangalore'
105            and f.fl_to='Delhi');
```

Result Grid | Filter Rows:

	aid
▶	378
•	NULL

```
107         -- Q7
108
109  •    select f.departs from flights f where f.fl_to="New York" and arrives="18:00:00";
```

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

	departs
▶	12:00:00

```
111    -- Q8
112
113  •  select e.ename, e.salary from employee e
114     where e.eid not in(select distinct c.eid from certified c) and e.salary>(select avg(e2.salary) from employee e2 where e2.eid in (select distinct c2.eid from certified c2));
```

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

	ename	salary
▶	Ramesh	100000