

```
1 • create database airline;
2 • show databases;
3 • use airline;
4 • create table flights(flno int,frm varchar(20),too varchar(20),distance int,departs time,arrives time,
5 price int,primary key(flno));
6 • create table aircraft(aid int,aname varchar(20),cruisingrange int,
7 primary key(aid));
8 • create table employee(eid int,ename varchar(20),salary int,
9 primary key(eid));
10 • create table certified(eid int,aid int,primary key(aid,eid),
11 foreign key(aid) references aircraft(aid),
12 foreign key(eid) references employee(eid));
13 • insert into flights values(1,'Bangalore','Mangalore',360,'10:45:00','12:00:00',10000);
14 • insert into flights values(2,'Bangalore','Delhi',5000,'12:15:00','04:30:00',25000);
15 • insert into flights values(3,'Bangalore','Mumbai',3500,'02:15:00','05:25:00',30000);
16 • insert into flights values(4,'Delhi','Mumbai',4500,'10:15:00','12:05:00',35000);
17 • insert into flights values(5,'Delhi','Frankfurt',18000,'07:15:00','05:30:00',90000);
18 • insert into flights values(6,'Bangalore','Frankfurt',19500,'10:00:00','07:45:00',95000);
19 • select * from flights;
20 • insert into aircraft values(123,'Airbus',1000);
```

```
17 • insert into flights values(5,'Delhi','Frankfurt',18000,'07:15:00','05:30:00',90000);
18 • insert into flights values(6,'Bangalore','Frankfurt',19500,'10:00:00','07:45:00',95000);
19 • select * from flights;
20 • insert into aircraft values(123,'Airbus',1000);
21 • insert into aircraft values(302,'Boeing',5000);
22 • insert into aircraft values(306,'Jet01',5000);
23 • insert into aircraft values(378,'Airbus380',8000);
24 • insert into aircraft values(456,'Aircraft',500);
25 • insert into aircraft values(123,'Airbus',1000);
26 • select * from flights;
27 • insert into employee values(1,'Ajay',30000);
28 • insert into employee values(2,'Ajith',85000);
29 • insert into employee values(3,'Arnab',50000);
30 • insert into employee values(4,'Harry',45000);
31 • insert into employee values(5,'RON',90000);
32 • insert into employee values(6,'JOSH',75000);
33 • select * from employee;
34 • insert into certified values(1,123);
35 • insert into certified values(2,123);
36 • insert into certified values(1,302);
```

```
29 • insert into employee values(3, 'Arnab', 50000);
30 • insert into employee values(4, 'Harry', 45000);
31 • insert into employee values(5, 'RON', 90000);
32 • insert into employee values(6, 'JOSH', 75000);
33 • select * from employee;
34 • insert into certified values(1, 123);
35 • insert into certified values(2, 123);
36 • insert into certified values(1, 302);
37 • insert into certified values(5, 302);
38 • insert into certified values(1, 306);
39 • select * from certified;
40
41 • select distinct(A.aname) from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
42 where salary >= 80000;
43
44
45 • select max(A.cruisingrange), E.eid from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
46 group by eid having count(E.eid) > 2;
47
48
```

44

45 • `select max(A.cruisingrange),E.eid from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid`
46 `group by eid having count(E.eid)>2;`

47

48

49 • `select ename from employee where salary <`
50 `(select min(price) from flights where frm='bangalore' and too='frankfurt');`

51

52

53 • `select A.aname,avg(E.salary) from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid where A.cruis`
54 `group by(A.aid);`

55

56

57 • `select ename from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid`
58 `where A.aname like 'boeing%';`

59

60

61 • `select aid from AIRCRAFT where cruisingrange>=(select distance from flights where frm='bangalore' and too='delhi');`

62

63

48

49 • `select` `ename` `from` `employee` `where` `salary` <
50 `(select` `min`(`price`) `from` `flights` `where` `frm`='bangalore' `and` `too`='frankfurt');

51

52

53 • `select` `A.aname`,`avg`(`E.salary`) `from` `aircraft` `A` `inner join` `certified` `C` `on` `A.aid`=`C.aid` `inner join` `Employee` `E` `on` `E.eid`=`C.eid` `where` `A.cruis`
54 `group by`(`A.aid`);

55

56

57 • `select` `ename` `from` `aircraft` `A` `inner join` `certified` `C` `on` `A.aid`=`C.aid` `inner join` `Employee` `E` `on` `E.eid`=`C.eid`
58 `where` `A.aname` `like` 'boeing%';

59

60

61 • `select` `aid` `from` `AIRCRAFT` `where` `cruisingrange`>=`(select` `distance` `from` `flights` `where` `frm`='bangalore' `and` `too`='delhi');

62

63





64 • `select` `ename` `from` `employee` `where` `eid` `not in`(`select` `eid` `from` `certified`) `and` `salary`>`(select` `avg`(`salary`)
65 `from` `employee` `where` `eid` `in`(`select` `eid` `from` `certified`));

66


```

19 • select * from flights;
20 • insert into aircraft values(123,'Airbus',1000);
21 • insert into aircraft values(302,'Boeing',5000);
22 • insert into aircraft values(306,'Jet01',5000);
23 • insert into aircraft values(378,'Airbus380',8000);

```

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

	fno	frm	too	distance	departs	arrives	price
▶	1	Bangalore	Mangalore	360	10:45:00	12:00:00	10000
	2	Bangalore	Delhi	5000	12:15:00	04:30:00	25000
	3	Bangalore	Mumbai	3500	02:15:00	05:25:00	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
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL



Result Grid



Form Editor



Field Types

flights 22 x

Apply


Revert

```
26 • select * from aircraft;
27 • insert into employee values(1,'Ajay',30000);
28 • insert into employee values(2,'Ajith',85000);
29 • insert into employee values(3,'Ansh',50000);
```

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

	aid	aname	cruisingrange
▶	123	Airbus	1000
	302	Boeing	5000
	306	Jet01	5000
	378	Airbus380	8000
	456	Aircraft	500
*	NULL	NULL	NULL


Result
Grid


Form
Editor


Field
Types

aircraft 23 x

Apply

Revert

```
33 • select * from employee;
34 • insert into certified values(1,123);
35 • insert into certified values(2,123);
36 • insert into certified values(1,302);
37 • insert into certified values(5,302);
38 • insert into certified values(1,306);
```

Result Grid



Filter Rows:

Edit:



Export/Import:



Wrap Cell Content:



Result
Grid



Form
Editor



Field
Types






	eid	ename	salary
▶	1	Ajay	30000
	2	Ajith	85000
	3	Arnab	50000
	4	Harry	45000
	5	RON	90000
	6	JOSH	75000
*	NULL	NULL	NULL

employee 24 x

Apply

Revert


```
39 • select * from certified;
40
41 • select distinct(A.aname) from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
42   where salary>=80000;
43
44
```

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

	eid	aid
▶	1	123
	1	302
	1	306
	2	123
	5	302
★	HULL	HULL


Result
Grid


Form
Editor



Field
Types

certified 25 x

Apply


Revert


```
41 • select distinct(A.aname) from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
42   where salary>=80000;
43
44
45 • select max(A.cruisingrange),E.eid from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
46   group by eid having count(E.eid)>2;
47
```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 


	aname
▶	Airbus
	Boeing


Result
Grid


Form
Editor


Field
Types

Result 26 x


 Read Only

```
45 • select max(A.cruisingrange),E.eid from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
46 group by eid having count(E.eid)>2;
47
48
49 • select ename from employee where salary <
50 (select min(price) from flights where from='bangalore' and to='frankfurt');
```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	max(A.cruisingrange)	eid
▶	5000	1

Result 27 x

 Read Only



Result
Grid



Form
Editor



Field
Types

```

49 • select ename from employee where salary <
50 (select min(price) from flights where frm='bangalore' and too='frankfurt');
51
52
53 • select A.aname,avg(E.salary) from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid where A.cruis
54 group by(A.aid);
55
56

```

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	ename
▶	Ajay
	Ajith
	Arnab
	Harry
	RON
	JOSH

Result Grid

Form Editor

Field Types

employee 28 x

Read Only

```
53 • select A.aname,avg(E.salary) from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid where A.cruis
54 group by(A.aid);
55
56
```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	aname	avg(E.salary)
▶	Boeing	60000.0000
	Jet01	30000.0000


Result
Grid


Form
Editor


Field
Types


Result 29 x

 Read Only


```
57 • select ename from aircraft A inner join certified C on A.aid=C.aid inner join Employee E on E.eid=C.eid
58 where A.aname like 'boeing%';
```

Result Grid   Filter Rows: Export:  Wrap Cell Content: 


	ename
▶	Ajay
	RON


Result
Grid


Form
Editor


Field
Types

Result 30 x

 Read Only


```
60
61 • select aid from AIRCRAFT where cruisingrange>=(select distance from flights where frm='bangalore' and too='delhi');
62
63
64 • select ename from employee where eid not in(select eid from certified) and salary>(select avg(salary)
65 from employee where eid in(select eid from certified));
66
```

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

	aid
▶	302
	306
	378
•	NULL

Result Grid

Form Editor

Field Types

AIRCRAFT 31 x

Apply


Revert

```
64 • select ename from employee where eid not in(select eid from certified) and salary>(select avg(salary)
65 from employee where eid in(select eid from certified));
```

< **Result Grid**   Filter Rows: Export:  Wrap Cell Content: 

	ename
▶	JOSH


Result
Grid


Form
Editor


Field
Types

employee 32 x

 Read Only