

DBMS LAB

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LAB PROG 7

OUTPUT

Value Insertion

```
airlinesdatabase x
Limit to 1000 rows

6
7 • INSERT INTO FLIGHTS (flno,fromm,too,distance,departs,arrives,price) VALUES
8   (1,'Bangalore','Chennai',360,'08:45','10:00',10000),
9   (2,'Bangalore','Delhi',1700,'12:15','15:00',37000),
10  (3,'Bangalore','Kolkata',1500,'15:15','05:25',30000),
11  (4,'Mumbai','Delhi',1200,'10:30','12:30',28000),
12  (5,'Bangalore','New york',14000,'05:45','02:30',90000),
13  (6,'Delhi','Chicago',12000,'10:00','05:45',95000),
14  (7,'Bangalore','Frankfurt',15000,'12:00','06:30',98000),
15  (8,'Madison','New york',1500,'10:15','14:25',30000);
16
17
18 • INSERT INTO AIRCRAFT (aid,aname,cruisingrange) values
19   (1,'Airbus 380',1000),
20   (2,'Boeing 737',4000),
21   (3,'Lockheed',5500),
22   (4,'Airbus A220',9500),
23   (5,'Boeing 747',800),
24   (6,'Douglas DC3',900);
25
26
27 • INSERT INTO EMPLOYEE (eid,ename,salary) VALUES
28   (1,'Zoya',95000),
```

```
airlinesdatabase x
Limit to 1000 rows

26
27 • INSERT INTO EMPLOYEE (eid,ename,salary) VALUES
28 (1,'Zoya',95000),
29 (2,'Akshay',65000),
30 (3,'Niveditha',70000),
31 (4,'Safan',45000),
32 (5,'Peter',95000),
33 (6,'Nayan',100000),
34 (7,'Ajay',50000);
35
36
37 • INSERT INTO CERTIFIED (eid,aid) VALUES
38 (1,1),
39 (1,3),
40 (1,4),
41 (5,4),
42 (5,3),
43 (1,2),
44 (2,6),
45 (2,5),
46 (4,5),
47 (6,4),
48 (6,3),
49 (3,6).
```

SELECT DISTINCT A.aname FROM AIRCRAFT A WHERE A.aid IN (SELECT C.aid FROM CERTIFIED C, EMPLOYEE E WHERE C.eid = E.eid AND NOT EXISTS (SELECT * FROM EMPLOYEE E1 WHERE E1.eid = E.eid AND E1.salary < 80000));

airlinesdatabase x

Limit to 1000 rows

```
41 (5,4),
42 (5,3),
43 (1,2),
44 (2,6),
45 (2,5),
46 (4,5),
47 (6,4),
48 (6,3),
49 (3,6),
50 (3,2);
51
52 • SELECT DISTINCT A.aname FROM AIRCRAFT A WHERE A.aid IN (SELECT C.aid FROM CERTIFIED C, EMPLOYEE E WHERE C.eid = E.eid
53 • SELECT C.eid, MAX(A.cruisingrange) FROM CERTIFIED C, AIRCRAFT A WHERE C.aid = A.aid GROUP BY C.eid HAVING COUNT(*) >
```

Result Grid

aname
Airbus 380
Boeing 737
Lockheed
Airbus A220

Form Editor

**SELECT C.eid, MAX(A.cruisingrange) FROM CERTIFIED C, AIRCRAFT A WHERE C.aid = A.aid
GROUP BY C.eid HAVING COUNT(*) > 3;**

The screenshot shows a database IDE with the following SQL queries in the editor:

```

42 (5,3),
43 (1,2),
44 (2,6),
45 (2,5),
46 (4,5),
47 (6,4),
48 (6,3),
49 (3,6),
50 (3,2);
51
52 • SELECT DISTINCT A.aname FROM AIRCRAFT A WHERE A.aid IN (SELECT C.aid FROM CERTIFIED C, EMPLOYEE E WHERE C.eid = E.eid
53 • SELECT C.eid, MAX(A.cruisingrange) FROM CERTIFIED C, AIRCRAFT A WHERE C.aid = A.aid GROUP BY C.eid HAVING COUNT(*) >
54 • SELECT DISTINCT e.ename FROM EMPLOYEE e WHERE e.salary < (SELECT MIN(f.price) FROM FLIGHTS f WHERE f.fromm='Bangalore')

```

The result grid at the bottom shows the output of the third query:

eid	MAX(A.cruisingrange)
1	9500

**SELECT DISTINCT e.ename FROM EMPLOYEE e WHERE e.salary < (SELECT MIN(f.price) FROM
FLIGHTS f WHERE f.fromm='Bangalore' AND f.too='Frankfurt');**

The screenshot shows a database IDE with the following SQL queries in the editor:

```

43 (1,2),
44 (2,6),
45 (2,5),
46 (4,5),
47 (6,4),
48 (6,3),
49 (3,6),
50 (3,2);
51
52 • SELECT DISTINCT A.aname FROM AIRCRAFT A WHERE A.aid IN (SELECT C.aid FROM CERTIFIED C, EMPLOYEE E WHERE C.eid = E.eid
53 • SELECT C.eid, MAX(A.cruisingrange) FROM CERTIFIED C, AIRCRAFT A WHERE C.aid = A.aid GROUP BY C.eid HAVING COUNT(*) >
54 • SELECT DISTINCT e.ename FROM EMPLOYEE e WHERE e.salary < (SELECT MIN(f.price) FROM FLIGHTS f WHERE f.fromm='Bangalore')
55 • 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.cru

```

The result grid at the bottom shows the output of the fourth query:

ename
Zoya
Akshay
Niveditha
Safan
Peter
Ajay

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;

The screenshot shows a database query editor with the following SQL code:

```

44      (2,6),
45      (2,5),
46      (4,5),
47      (6,4),
48      (6,3),
49      (3,6),
50      (3,2);
51
52 • SELECT DISTINCT A.aname FROM AIRCRAFT A WHERE A.aid IN (SELECT C.aid FROM CERTIFIED C, EMPLOYEE E WHERE C.eid = E.eid
53 • SELECT C.eid, MAX(A.cruisingrange) FROM CERTIFIED C, AIRCRAFT A WHERE C.aid = A.aid GROUP BY C.eid HAVING COUNT(*) >
54 • SELECT DISTINCT e.ename FROM EMPLOYEE e WHERE e.salary< (SELECT MIN(f.price) FROM FLIGHTS f WHERE f.fromm='Bangalore'
55 • 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.cru
56 • SELECT distinct e.ename FROM EMPLOYEE e,AIRCRAFT a,CERTIFIED c WHERE e.eid=c.eid AND c.aid=a.aid AND a.aname like 'Bo

```

The result grid shows the following data:

aid	aname	AVG(e.salary)
2	Boeing 737	82500.0000
3	Lockheed	96666.6667
4	Airbus A220	96666.6667

SELECT distinct e.ename FROM EMPLOYEE e,AIRCRAFT a,CERTIFIED c WHERE e.eid=c.eid AND c.aid=a.aid AND a.aname like 'Boeing%';

The screenshot shows a database query editor with the following SQL code:

```

45      (2,5),
46      (4,5),
47      (6,4),
48      (6,3),
49      (3,6),
50      (3,2);
51
52 • SELECT DISTINCT A.aname FROM AIRCRAFT A WHERE A.aid IN (SELECT C.aid FROM CERTIFIED C, EMPLOYEE E WHERE C.eid = E.eid
53 • SELECT C.eid, MAX(A.cruisingrange) FROM CERTIFIED C, AIRCRAFT A WHERE C.aid = A.aid GROUP BY C.eid HAVING COUNT(*) >
54 • SELECT DISTINCT e.ename FROM EMPLOYEE e WHERE e.salary< (SELECT MIN(f.price) FROM FLIGHTS f WHERE f.fromm='Bangalore'
55 • 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.cru
56 • SELECT distinct e.ename FROM EMPLOYEE e,AIRCRAFT a,CERTIFIED c WHERE e.eid=c.eid AND c.aid=a.aid AND a.aname like 'Bo
57 • SELECT a.aid FROM AIRCRAFT a WHERE a.cruisingrange> (SELECT MIN(f.distance) FROM FLIGHTS f WHERE f.fromm='Bangalore'

```

The result grid shows the following data:

ename
Zoya
Niveditha
Akshay
Safan

SELECT a.aid FROM AIRCRAFT a WHERE a.cruisingrange > (SELECT MIN(f.distance) FROM FLIGHTS f WHERE f.fromm='Bangalore' AND f.too='Delhi');

The screenshot shows a database query editor with a SQL query and its result grid. The query is:

```
SELECT a.aid FROM AIRCRAFT a WHERE a.cruisingrange > (SELECT MIN(f.distance) FROM FLIGHTS f WHERE f.fromm='Bangalore' AND f.too='Delhi');
```

The result grid shows the following data:

aid
2
3
4
NULL

SELECT F.departs FROM FLIGHTS F WHERE F.flno IN (SELECT F0.flno FROM FLIGHTS F0 WHERE F0.fromm = 'Madison' AND F0.too = 'New york' AND F0.arrives < '18:00');

The screenshot shows a database query editor with a SQL query and its result grid. The query is:

```
SELECT F.departs FROM FLIGHTS F WHERE F.flno IN ( SELECT F0.flno FROM FLIGHTS F0 WHERE F0.fromm = 'Madison' AND F0.too = 'New york' AND F0.arrives < '18:00' );
```

The result grid shows the following data:

departs
10:15:00

SELECT E.ename, E.salary FROM EMPLOYEE E WHERE E.eid NOT IN (SELECT DISTINCT C.eid FROM CERTIFIED C) AND E.salary > (SELECT AVG (E1.salary) FROM EMPLOYEE E1 WHERE E1.eid IN (SELECT DISTINCT C1.eid FROM CERTIFIED C1));

airlinesdatabase x

Limit to 1000 rows

```

47
48
49
50
51
52 • :eid = E.eid AND NOT EXISTS ( SELECT * FROM EMPLOYEE E1 WHERE E1.eid = E.eid AND E1.salary < 80000 );
53 • COUNT(*) > 3;
54 • Bangalore' AND f.too='Frankfurt');
55 • { AND a.cruisingrange>1000 GROUP BY a.aid,a.aname;
56 • te like 'Boeing%';
57 • Bangalore' AND f.too='Delhi');
58 • ' AND F0.too = 'New york' AND F0.arrives < '18:00' );
59 • E.salary > ( SELECT AVG (E1.salary) FROM EMPLOYEE E1 WHERE E1.eid IN ( SELECT DISTINCT C1.eid FROM CERTIFIED C1 ) );

```

Result Grid

ename	salary
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Filter Rows: Export: Wrap Cell Content: ☐

Result Grid

Form Editor