

```

90      (3,951),
91      (1,951),
92      (1,789);
93
94 • SELECT * FROM FLIGHTS;
95
96 • SELECT * FROM AIRCRAFT;
97
98 • SELECT * FROM EMPLOYEE;
99

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	FL_NO	FFROM	FTO	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

FLIGHTS 26

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 55	15:47:54	SELECT * FROM EMPLOYEE LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
✓ 56	15:47:54	SELECT * FROM CERTIFIED LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
✓ 57	15:48:08	SELECT F.DEPARTS FROM FLIGHTS F WHERE F.FL_NO IN ((SELECT F0.FL_NO FROM FLIGHTS F0 WHE...	3 row(s) returned	0.015 sec / 0.000 sec
✓ 58	15:48:42	SELECT ENAME FROM EMPLOYEE WHERE EID NOT IN(SELECT EID FROM CERTIFIED) AND SALARY>(SE...	2 row(s) returned	0.000 sec / 0.000 sec
✓ 59	15:49:57	SELECT * FROM FLIGHTS LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec



```

93
94 • SELECT * FROM FLIGHTS;
95
96 • SELECT * FROM AIRCRAFT;
97
98 • SELECT * FROM EMPLOYEE;
99
100 • SELECT * FROM CERTIFIED;
101 -- i. Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.
102

```

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

	EID	ENAME	SALARY
▶	1	AJAY	30000
	2	AJITH	85000
	3	ARNAB	50000
	4	HARRY	45000
	5	RON	90000



EMPLOYEE 28

Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 57	15:48:08	SELECT F.DEPARTS FROM FLIGHTS F WHERE F.FL_NO IN ((SELECT F0.FL_NO FROM FLIGHTS F0 WHE...	3 row(s) returned	0.015 sec / 0.000 sec
✓ 58	15:48:42	SELECT ENAME FROM EMPLOYEE WHERE EID NOT IN(SELECT EID FROM CERTIFIED) AND SALARY>(SE...	2 row(s) returned	0.000 sec / 0.000 sec
✓ 59	15:49:57	SELECT * FROM FLIGHTS LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec
✓ 60	15:50:29	SELECT * FROM AIRCRAFT LIMIT 0, 1000	7 row(s) returned	0.047 sec / 0.000 sec
✓ 61	15:50:48	SELECT * FROM EMPLOYEE LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

examportal AIRLINE x

Limit to 1000 rows

```

94 • SELECT * FROM FLIGHTS;
95
96 • SELECT * FROM AIRCRAFT;
97
98 • SELECT * FROM EMPLOYEE;
99
100 • SELECT * FROM CERTIFIED;
101 -- i. Find the names of aircraft such that all pilots certified to operate them have salaries more than Rs.80,000.
102
103 • SELECT DISTINCT A.ANAME FROM AIRCRAFT A, CERTIFIED C, EMPLOYEE E WHERE A.AID = C.AID AND C.EID = E.EID AND E.SALARY > 80000;

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	EID	AID
▶	1	123
	2	123
	1	302
	5	302
	7	302

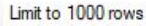
Result Grid

CERTIFIED 29 x Read Only

Output


Action Output

#	Time	Action	Message	Duration / Fetch
✓ 58	15:48:42	SELECT ENAME FROM EMPLOYEE WHERE EID NOT IN(SELECT EID FROM CERTIFIED) AND SALARY>(SE...	2 row(s) returned	0.000 sec / 0.000 sec
✓ 59	15:49:57	SELECT * FROM FLIGHTS LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec
✓ 60	15:50:29	SELECT * FROM AIRCRAFT LIMIT 0, 1000	7 row(s) returned	0.047 sec / 0.000 sec
✓ 61	15:50:48	SELECT * FROM EMPLOYEE LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
✓ 62	15:52:25	SELECT * FROM CERTIFIED LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec



--

Export:

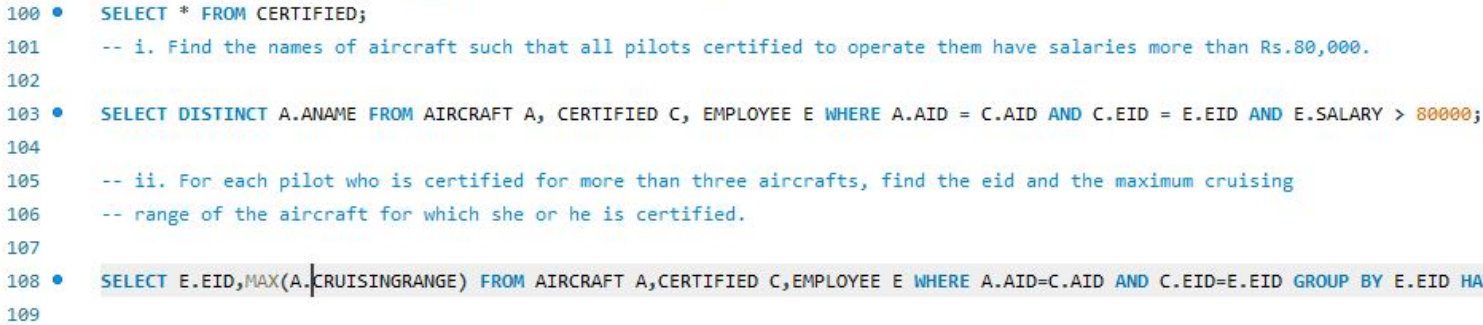
Wrap Cell Content: 

▶	AIRBUS
	JET01
	AIRBUS380
	BOEING
	AIRCRAFT02

Read Only

 Action Output

#	Time	Action	Message	Duration / Fetch
59	15:49:57	SELECT * FROM FLIGHTS LIMIT 0, 1000	14 row(s) returned	0.000 sec / 0.000 sec
60	15:50:29	SELECT * FROM AIRCRAFT LIMIT 0, 1000	7 row(s) returned	0.047 sec / 0.000 sec
61	15:50:48	SELECT * FROM EMPLOYEE LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
62	15:52:25	SELECT * FROM CERTIFIED LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
63	15:52:47	SELECT DISTINCT A.ANAME FROM AIRCRAFT A, CERTIFIED C, EMPLOYEE E WHERE A.AID = C.AID AND ...	5 row(s) returned	0.000 sec / 0.000 sec



	EID	MAX(A.CRUISEGRANGE)
▶	1	8000

Result Grid

Read Only

 Action Output

#	Time	Action	Message	Duration / Fetch
60	15:50:29	SELECT * FROM AIRCRAFT LIMIT 0, 1000	7 row(s) returned	0.047 sec / 0.000 sec
61	15:50:48	SELECT * FROM EMPLOYEE LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
62	15:52:25	SELECT * FROM CERTIFIED LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
63	15:52:47	SELECT DISTINCT A.ANAME FROM AIRCRAFT A, CERTIFIED C, EMPLOYEE E WHERE A.AID = C.AID AND ...	5 row(s) returned	0.000 sec / 0.000 sec
64	15:53:11	SELECT E.EID,MAX(A.CRUISEGRANGE) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C....	1 row(s) returned	0.000 sec / 0.000 sec



```

112 • SELECT DISTINCT ENAME FROM EMPLOYEE WHERE EID IN(
113     SELECT EID FROM CERTIFIED)
114     AND SALARY < (
115     SELECT MIN(PRICE) FROM FLIGHTS WHERE FFROM = 'BANGALORE' AND FTO = 'FRANKFURT') ;
116
    
```

Result Grid Filter Rows: Export: Wrap Cell Content:

ENAME
AJAY
AJITH
ARNAB
HARRY
RON
JOSH



EMPLOYEE 32

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
61	15:50:48	SELECT * FROM EMPLOYEE LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
62	15:52:25	SELECT * FROM CERTIFIED LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
63	15:52:47	SELECT DISTINCT A.ANAME FROM AIRCRAFT A, CERTIFIED C, EMPLOYEE E WHERE A.AID = C.AID AND ...	5 row(s) returned	0.000 sec / 0.000 sec
64	15:53:11	SELECT E.EID,MAX(A.CRUISEGRANGE) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C....	1 row(s) returned	0.000 sec / 0.000 sec
65	15:53:29	SELECT DISTINCT ENAME FROM EMPLOYEE WHERE EID IN(SELECT EID FROM CERTIFIED)	6 row(s) returned	0.000 sec / 0.000 sec



```

116
117 -- iv. For all aircraft with cruising range over 1000 Kms, find the name of the aircraft and the average
118 -- salary of all pilots certified for this aircraft.
119
120 • SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID AND A.CRUISEGRANGE > 1000 GROUP BY A.AID;
121
122 -- v. Find the names of pilots certified for some Boeing aircraft.
    
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	ANAME	AVG(E.SALARY)
▶	BOEING	73333.3333
	JET01	57500.0000
	AIRBUS380	53333.3333



Result 33

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
62	15:52:25	SELECT * FROM CERTIFIED LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
63	15:52:47	SELECT DISTINCT A.ANAME FROM AIRCRAFT A, CERTIFIED C, EMPLOYEE E WHERE A.AID = C.AID AND ...	5 row(s) returned	0.000 sec / 0.000 sec
64	15:53:11	SELECT E.EID,MAX(A.CRUISEGRANGE) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C....	1 row(s) returned	0.000 sec / 0.000 sec
65	15:53:29	SELECT DISTINCT ENAME FROM EMPLOYEE WHERE EID IN(SELECT EID FROM CERTIFIED)	6 row(s) returned	0.000 sec / 0.000 sec
66	15:53:53	SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID A...	3 row(s) returned	0.000 sec / 0.000 sec



```

119
120 • SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID AND A.CRUISEGRANGE > 1000 GROUP BY A.AID;
121
122 -- v. Find the names of pilots certified for some Boeing aircraft.
123
124 • SELECT E.ENAME FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID AND A.ANAME = 'BOEING';
125

```

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

ENAME
AJAY
RON
RAM



Result Grid



Form Editor

Result 34

Read Only

Output

#	Time	Action	Message	Duration / Fetch
63	15:52:47	SELECT DISTINCT A.ANAME FROM AIRCRAFT A, CERTIFIED C, EMPLOYEE E WHERE A.AID = C.AID AND ...	5 row(s) returned	0.000 sec / 0.000 sec
64	15:53:11	SELECT E.EID,MAX(A.CRUISEGRANGE) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C....	1 row(s) returned	0.000 sec / 0.000 sec
65	15:53:29	SELECT DISTINCT ENAME FROM EMPLOYEE WHERE EID IN(SELECT EID FROM CERTIFIED)	6 row(s) returned	0.000 sec / 0.000 sec
66	15:53:53	SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID A...	3 row(s) returned	0.000 sec / 0.000 sec
67	15:54:16	SELECT E.ENAME FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID ...	3 row(s) returned	0.000 sec / 0.000 sec

```

125
126 -- vi. Find the aids of all aircraft that can be used on routes from Bengaluru to New Delhi.
127
128 • SELECT AID FROM AIRCRAFT WHERE CRUISINGRANGE >= (SELECT MIN(DISTANCE) FROM FLIGHTS WHERE FFROM = 'BANGALORE' AND FTO = 'DELHI') ;
129
130 -- vii. A customer wants to travel from Madison to New York with no more than two changes of flight. List
131 -- the choice of departure times from Madison if the customer wants to arrive in New York by 6 p.m.
    
```

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

AID
302
306
378
NULL

Result Grid

Form Editor

AIRCRAFT 35 x

Output

#	Time	Action	Message	Duration / Fetch
64	15:53:11	SELECT E.EID,MAX(A.CRUISINGRANGE) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C....	1 row(s) returned	0.000 sec / 0.000 sec
65	15:53:29	SELECT DISTINCT ENAME FROM EMPLOYEE WHERE EID IN(SELECT EID FROM CERTIFIED)	6 row(s) returned	0.000 sec / 0.000 sec
66	15:53:53	SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID A...	3 row(s) returned	0.000 sec / 0.000 sec
67	15:54:16	SELECT E.ENAME FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID ...	3 row(s) returned	0.000 sec / 0.000 sec
68	15:54:32	SELECT AID FROM AIRCRAFT WHERE CRUISINGRANGE >= (SELECT MIN(DISTANCE) FROM FLIGHTS WH...	3 row(s) returned	0.000 sec / 0.000 sec

examportal

AIRLINE

Limit to 1000 rows

134

FROM FLIGHTS F

135

WHERE F.FL_NO IN ((SELECT F0.FL_NO

136

FROM FLIGHTS F0

137

WHERE F0.FFROM = 'MADISON' AND F0.FTO = 'NEW YORK'

138

AND F0.ARRIVES < '18:00:00')

139

UNION

140

(SELECT F0.FL_NO

141

FROM FLIGHTS F0, FLIGHTS F1

142

WHERE F0.FFROM = 'MADISON' AND F0.FTO != 'NEW YORK'

143

AND F0.FTO = F1.FFROM AND F1.FTO = 'NEW YORK'

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Result Grid

DEPARTS

10:00:00

11:00:00

14:05:00

Result 36

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
65	15:53:29	SELECT DISTINCT ENAME FROM EMPLOYEE WHERE EID IN(SELECT EID FROM CERTIFIED)	6 row(s) returned	0.000 sec / 0.000 sec
66	15:53:53	SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID A...	3 row(s) returned	0.000 sec / 0.000 sec
67	15:54:16	SELECT E.ENAME FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID ...	3 row(s) returned	0.000 sec / 0.000 sec
68	15:54:32	SELECT AID FROM AIRCRAFT WHERE CRUISINGRANGE >= (SELECT MIN(DISTANCE) FROM FLIGHTS WH...	3 row(s) returned	0.000 sec / 0.000 sec
69	15:54:55	SELECT F.DEPARTS FROM FLIGHTS F WHERE F.FL_NO IN ((SELECT F0.FL_NO FROM FLIGHTS F0 WHE...	3 row(s) returned	0.000 sec / 0.000 sec



```

152     AND F2.FTO = 'NEW YORK'
153     AND F0.FTO != 'NEW YORK'
154     AND F1.FTO != 'NEW YORK'
155     AND F1.DEPARTS > F0.ARRIVES
156     AND F2.DEPARTS > F1.ARRIVES
157     AND F2.ARRIVES < '18:00:00' ));
158
159 -- viii. Print the name and salary of every non-pilot whose salary is more than the average salary for pilots.
160 • SELECT ENAME FROM EMPLOYEE WHERE EID NOT IN(SELECT EID FROM CERTIFIED) AND SALARY>(SELECT AVG(SALARY) FROM EMPLOYEE WHERE EID IN(SELECT EID FROM CERTIFIED));
    
```

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

ENAME
RAMESH
SURESH

Result Grid

EMPLOYEE 37 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
66	15:53:53	SELECT A.ANAME, AVG(E.SALARY) FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID A...	3 row(s) returned	0.000 sec / 0.000 sec
67	15:54:16	SELECT E.ENAME FROM AIRCRAFT A,CERTIFIED C,EMPLOYEE E WHERE A.AID=C.AID AND C.EID=E.EID ...	3 row(s) returned	0.000 sec / 0.000 sec
68	15:54:32	SELECT AID FROM AIRCRAFT WHERE CRUISINGRANGE >= (SELECT MIN(DISTANCE) FROM FLIGHTS WH...	3 row(s) returned	0.000 sec / 0.000 sec
69	15:54:55	SELECT F.DEPARTS FROM FLIGHTS F WHERE F.FL_NO IN ((SELECT F0.FL_NO FROM FLIGHTS F0 WHE...	3 row(s) returned	0.000 sec / 0.000 sec
70	15:55:19	SELECT ENAME FROM EMPLOYEE WHERE EID NOT IN(SELECT EID FROM CERTIFIED) AND SALARY>(SE...	2 row(s) returned	0.000 sec / 0.000 sec