

```

SQL> set echo on:
SP2-0158: unknown SET option ":"
SQL>
SQL> @z:/air_main.sql
SP2-0310: unable to open file "z:/air_main.sql"
SQL>
SQL> REM: ***** Ex4-
VIEWS *****
SQL>
SQL> REM: To create a view based on table(s) or view(s) and observe its
behavior while performing update
SQL> REM: operations on it.
SQL> REM: Use the schema from Assignment - 3 for the following:
SQL>
SQL> SELECT * FROM fl_schedule WHERE flno='HA-1';

```

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
HA-1	15-APR-05	1110	15-APR-05	1445	375.23

```

SQL> SELECT * FROM flights WHERE flightno='HA-1';

```

FLIGHTN	RID	AID
HA-1	LH106	13

```

SQL>
SQL> REM: 1. Create a view Schedule_15 that display the flight number, route,
airport(origin, destination)
SQL> REM:   departure (date, time), arrival (date, time) of a flight on 15
apr 2005. Label the view
SQL> REM:   column as flight, route, from_airport, to_airport, ddate, dtime,
adate, atime respectively.
SQL>
SQL> CREATE OR REPLACE VIEW Schedule_15 (flight, route, from_airport,
to_airport, ddate, dtime, adate, atime) AS
  2 SELECT fl.flno,
  3 r.routeid,
  4 r.orig_airport,
  5 r.dest_airport,
  6 fl.departs,
  7 fl.dtime,
  8 fl.arrives,
  9 fl.atime
 10 FROM flights f, fl_schedule fl, routes r
 11 WHERE fl.flno=f.flightno AND f.rid=r.routeid
 12 AND fl.departs=TO_DATE('15-04-2005', 'dd-mm-yyyy');

```

View created.

```

SQL>
SQL> SELECT * FROM Schedule_15;

```

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482	LW100	Los Angeles	Washington D.C.	15-APR-05	1230
15-APR-05		1540			
SQ-11	LT105	Los Angeles	Tokyo	15-APR-05	1230
16-APR-05		2055			
HA-1	LH106	Los Angeles	Honolulu	15-APR-05	1110
15-APR-05		1445			
A5-3246	CN151	Chicago	New York	15-APR-05	1810

15-APR-05	1900				
9E-3851 MD200	Madison	Detroit	15-APR-05	1035	
15-APR-05	1140				
MQ-4477 DN250	Detroit	New York	15-APR-05	1510	
15-APR-05	1600				
RP-5018 MC201	Madison	Chicago	15-APR-05	2100	
15-APR-05	2155				
BA-178 NYL400	New York	London	15-APR-05	1140	
16-APR-05	1020				

8 rows selected.

SQL>

SQL> REM: INSERT OPERATION ON VIEW Schedule\_15

SQL> INSERT INTO Schedule\_15 VALUES('NIV-104', 'CH20', 'Tokyo', '27-SEP-2022', 'Seoul', 2100, '27-SEP-2022', 2144);

INSERT INTO Schedule\_15 VALUES('NIV-104', 'CH20', 'Tokyo', '27-SEP-2022', 'Seoul', 2100, '27-SEP-2022', 2144)

\*

ERROR at line 1:

ORA-01776: cannot modify more than one base table through a join view

SQL>

SQL> REM: UPDATE OPERATION ON VIEW Schedule\_15

SQL> UPDATE Schedule\_15 SET from\_airport='Tokyo' WHERE flight='HA-1';

UPDATE Schedule\_15 SET from\_airport='Tokyo' WHERE flight='HA-1'

\*

ERROR at line 1:

ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL>

SQL> REM: DELETE OPERATION ON VIEW Schedule\_15

SQL> DELETE FROM Schedule\_15 WHERE flight='HA-1';

1 row deleted.

SQL>

SQL> SELECT \* FROM Schedule\_15;

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482	LW100	Los Angeles	Washington D.C.	15-APR-05	1230
15-APR-05		1540			
SQ-11	LT105	Los Angeles	Tokyo	15-APR-05	1230
16-APR-05		2055			
A5-3246	CN151	Chicago	New York	15-APR-05	1810
15-APR-05		1900			
9E-3851	MD200	Madison	Detroit	15-APR-05	1035
15-APR-05		1140			
MQ-4477	DN250	Detroit	New York	15-APR-05	1510
15-APR-05		1600			
RP-5018	MC201	Madison	Chicago	15-APR-05	2100
15-APR-05		2155			
BA-178	NYL400	New York	London	15-APR-05	1140
16-APR-05		1020			

7 rows selected.

SQL>

SQL> SELECT \* FROM fl\_schedule WHERE flno='HA-1';

no rows selected

SQL> SELECT \* FROM flights WHERE flightno='HA-1';

FLIGHTN	RID	AID
HA-1	LH106	13

SQL>

SQL> REM: 2. Define a view Airtype that display the number of aircrafts for each of its type. Label the

SQL> REM: column as craft\_type, total.

SQL>

SQL> CREATE OR REPLACE VIEW Airtype AS  
 2 SELECT type craft\_type, COUNT(\*) AS total  
 3 FROM aircraft  
 4 GROUP BY type;

View created.

SQL>

SQL> SELECT \* FROM Airtype;

CRAFT TYPE	TOTAL
Boeing	6
Saab	1
Airbus	3
BAe	1
Schweizer	1
Piper	1
Lockheed	1
Tupolev	1
Embraer	1

9 rows selected.

SQL>

SQL> REM: INSERT OPERATION ON VIEW Airtype  
 SQL> INSERT INTO Airtype VALUES('NiveStar', 100);  
 INSERT INTO Airtype VALUES('NiveStar', 100)

\*

ERROR at line 1:

ORA-01733: virtual column not allowed here

SQL>

SQL> REM: UPDATE OPERATION ON VIEW Airtype  
 SQL> UPDATE Airtype SET craft\_type='NiveStar' WHERE total=1;  
 UPDATE Airtype SET craft\_type='NiveStar' WHERE total=1

\*

ERROR at line 1:

ORA-01732: data manipulation operation not legal on this view

SQL>

SQL> REM: DELETE OPERATION ON VIEW Airtype  
 SQL> DELETE FROM Airtype WHERE total=1;  
 DELETE FROM Airtype WHERE total=1

\*

ERROR at line 1:

ORA-01732: data manipulation operation not legal on this view

```
SQL> DELETE FROM Airtype WHERE craft_type='Boeing';
DELETE FROM Airtype WHERE craft_type='Boeing'
      *
ERROR at line 1:
ORA-01732: data manipulation operation not legal on this view
```

```
SQL>
SQL> REM: 3. Create a view Losangeles_Route that contains Los Angeles in the
route. Ensure that the view
SQL> REM:      always contain/allows only information about the Los Angeles
route.
SQL>
SQL> CREATE OR REPLACE VIEW Losangeles_Route AS
  2  SELECT * FROM routes
  3  WHERE orig_airport='Los Angeles' OR dest_airport='Los Angeles' WITH CHECK
  OPTION;
```

View created.

```
SQL>
SQL> SELECT * FROM Losangeles_Route;
```

ROUTEI	ORIG AIRPORT	DEST AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
LN107	Los Angeles	New York	2510

9 rows selected.

```
SQL>
SQL> REM: INSERT OPERATION ON VIEW Losangeles Route
SQL> INSERT INTO Losangeles_Route VALUES('NIV-27', 'Tokyo', 'Seoul', 27900);
INSERT INTO Losangeles_Route VALUES('NIV-27', 'Tokyo', 'Seoul', 27900)
      *
ERROR at line 1:
ORA-01402: view WITH CHECK OPTION where-clause violation
```

```
SQL> INSERT INTO Losangeles_Route VALUES('NIV-27', 'Los Angeles', 'Seoul',
27900);
```

1 row created.

```
SQL>
SQL> SELECT * FROM Losangeles_Route;
```

ROUTEI	ORIG AIRPORT	DEST AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551

CL150	Chicago	Los Angeles	1749
LN107	Los Angeles	New York	2510
NIV-27	Los Angeles	Seoul	27900

10 rows selected.

SQL> SELECT \* FROM routes;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
-----	-----	-----	-----
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
CN151	Chicago	New York	802
MD200	Madison	Detroit	319
DN250	Detroit	New York	470

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
-----	-----	-----	-----
DM251	Detroit	Montreal	517
MN204	Madison	New York	789
MC201	Madison	Chicago	150
MP202	Madison	Pittsburgh	510
MM203	Madison	Minneapolis	247
MNY300	Minneapolis	New York	991
PN350	Pittsburgh	New York	303
PC351	Pittsburgh	Chicago	409
NYL400	New York	London	3471
NYP401	New York	Paris	3631
LN107	Los Angeles	New York	2510

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
-----	-----	-----	-----
NIV-27	Los Angeles	Seoul	27900

23 rows selected.

SQL>

SQL> REM: UPDATE OPERATION ON VIEW Losangeles\_Route

SQL> SELECT \* FROM Losangeles\_Route;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
-----	-----	-----	-----
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
LN107	Los Angeles	New York	2510
NIV-27	Los Angeles	Seoul	27900

10 rows selected.

SQL> SELECT \* FROM routes;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
--------	--------------	--------------	----------

LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
CN151	Chicago	New York	802
MD200	Madison	Detroit	319
DN250	Detroit	New York	470

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
DM251	Detroit	Montreal	517
MN204	Madison	New York	789
MC201	Madison	Chicago	150
MP202	Madison	Pittsburgh	510
MM203	Madison	Minneapolis	247
MNY300	Minneapolis	New York	991
PN350	Pittsburgh	New York	303
PC351	Pittsburgh	Chicago	409
NYL400	New York	London	3471
NYP401	New York	Paris	3631
LN107	Los Angeles	New York	2510

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
NIV-27	Los Angeles	Seoul	27900

23 rows selected.

SQL>

SQL> UPDATE Losangeles\_Route SET routeid='NIV-99' WHERE routeid='NIV-27';

1 row updated.

SQL>

SQL> SELECT \* FROM Losangeles\_Route;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
LN107	Los Angeles	New York	2510
NIV-99	Los Angeles	Seoul	27900

10 rows selected.

SQL> SELECT \* FROM routes;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606

LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
CN151	Chicago	New York	802
MD200	Madison	Detroit	319
DN250	Detroit	New York	470

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
DM251	Detroit	Montreal	517
MN204	Madison	New York	789
MC201	Madison	Chicago	150
MP202	Madison	Pittsburgh	510
MM203	Madison	Minneapolis	247
MNY300	Minneapolis	New York	991
PN350	Pittsburgh	New York	303
PC351	Pittsburgh	Chicago	409
NYL400	New York	London	3471
NYP401	New York	Paris	3631
LNy107	Los Angeles	New York	2510

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
NIV-99	Los Angeles	Seoul	27900

23 rows selected.

SQL>

SQL> REM: DELETE OPERATION ON VIEW Losangeles\_Route

SQL> SELECT \* FROM Losangeles\_Route;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
LNy107	Los Angeles	New York	2510
NIV-99	Los Angeles	Seoul	27900

10 rows selected.

SQL> SELECT \* FROM routes;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
CN151	Chicago	New York	802
MD200	Madison	Detroit	319
DN250	Detroit	New York	470

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
--------	--------------	--------------	----------

DM251	Detroit	Montreal	517
MN204	Madison	New York	789
MC201	Madison	Chicago	150
MP202	Madison	Pittsburgh	510
MM203	Madison	Minneapolis	247
MNY300	Minneapolis	New York	991
PN350	Pittsburgh	New York	303
PC351	Pittsburgh	Chicago	409
NYL400	New York	London	3471
NYP401	New York	Paris	3631
LNy107	Los Angeles	New York	2510

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
NIV-99	Los Angeles	Seoul	27900

23 rows selected.

SQL>

SQL> DELETE FROM Losangeles\_Route WHERE routeid='NIV-99';

1 row deleted.

SQL>

SQL> SELECT \* FROM Losangeles\_Route;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
LNy107	Los Angeles	New York	2510

9 rows selected.

SQL> SELECT \* FROM routes;

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
LW100	Los Angeles	Washington D.C.	2308
LC101	Los Angeles	Chicago	1749
LD102	Los Angeles	Dallas	1251
LB103	Los Angeles	Boston	2606
LS104	Los Angeles	Sydney	7487
LT105	Los Angeles	Tokyo	5478
LH106	Los Angeles	Honolulu	2551
CL150	Chicago	Los Angeles	1749
CN151	Chicago	New York	802
MD200	Madison	Detroit	319
DN250	Detroit	New York	470

ROUTEI	ORIG_AIRPORT	DEST_AIRPORT	DISTANCE
DM251	Detroit	Montreal	517
MN204	Madison	New York	789
MC201	Madison	Chicago	150
MP202	Madison	Pittsburgh	510
MM203	Madison	Minneapolis	247



MNY300	Minneapolis	New York	991
PN350	Pittsburgh	New York	303
PC351	Pittsburgh	Chicago	409
NYL400	New York	London	3471
NYP401	New York	Paris	3631
LNY107	Los Angeles	New York	2510

22 rows selected.

SQL>

SQL> REM: 4. Create a view named Losangeles\_Flight on Schedule\_15 (as defined in 1) that display flight,

SQL> REM: departure (date, time), arrival (date, time) of flight(s) from Los Angeles.

SQL>

```
SQL> CREATE OR REPLACE VIEW Losangeles_Flight AS
  2 SELECT flight, ddate, dtime, adate, atime AS arrival
  3 FROM Schedule_15
  4 WHERE from_airport='Los Angeles';
```

View created.

SQL>

SQL> SELECT \* FROM Losangeles\_Flight;

FLIGHT	DDATE	DTIME	ADATE	ARRIVAL
JJ-2482	15-APR-05	1230	15-APR-05	1540
SQ-11	15-APR-05	1230	16-APR-05	2055

SQL> SELECT \* FROM Schedule\_15;

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482	LW100	Los Angeles	Washington D.C.	15-APR-05	1230
15-APR-05		1540			
SQ-11	LT105	Los Angeles	Tokyo	15-APR-05	1230
16-APR-05		2055			
A5-3246	CN151	Chicago	New York	15-APR-05	1810
15-APR-05		1900			
9E-3851	MD200	Madison	Detroit	15-APR-05	1035
15-APR-05		1140			
MQ-4477	DN250	Detroit	New York	15-APR-05	1510
15-APR-05		1600			
RP-5018	MC201	Madison	Chicago	15-APR-05	2100
15-APR-05		2155			
BA-178	NYL400	New York	London	15-APR-05	1140
16-APR-05		1020			

7 rows selected.

SQL> SELECT \* FROM fl\_schedule WHERE flno='SQ-11';

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
SQ-11	15-APR-05	1230	16-APR-05	2055	780.99

SQL> SELECT \* FROM flights WHERE flightno='SQ-11';

FLIGHTN	RID	AID
SQ-11	LT105	11

```
SQL>
SQL> REM: INSERT OPERATION ON VIEW Losangeles_Flight
SQL> INSERT INTO Losangeles_Flight VALUES('SQ-11', '27-SEP-2020', 1850, '28-SEP-2020', 2100);
```

1 row created.

```
SQL>
SQL> SELECT * FROM Losangeles_Flight;
```

FLIGHT	DDATE	DTIME	ADATE	ARRIVAL
JJ-2482	15-APR-05	1230	15-APR-05	1540
SQ-11	15-APR-05	1230	16-APR-05	2055

```
SQL> SELECT * FROM Schedule_15;
```

FLIGHT	ROUTE	FROM AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482	LW100	Los Angeles	Washington D.C.	15-APR-05	1230
15-APR-05		1540			
SQ-11	LT105	Los Angeles	Tokyo	15-APR-05	1230
16-APR-05		2055			
A5-3246	CN151	Chicago	New York	15-APR-05	1810
15-APR-05		1900			
9E-3851	MD200	Madison	Detroit	15-APR-05	1035
15-APR-05		1140			
MQ-4477	DN250	Detroit	New York	15-APR-05	1510
15-APR-05		1600			
RP-5018	MC201	Madison	Chicago	15-APR-05	2100
15-APR-05		2155			
BA-178	NYL400	New York	London	15-APR-05	1140
16-APR-05		1020			

7 rows selected.

```
SQL> SELECT * FROM fl_schedule WHERE flno='SQ-11';
```

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
SQ-11	15-APR-05	1230	16-APR-05	2055	780.99
SQ-11	27-SEP-20	1850	28-SEP-20	2100	

```
SQL> SELECT * FROM flights WHERE flightno='SQ-11';
```

FLIGHTN	RID	AID
SQ-11	LT105	11

```
SQL>
SQL> REM: UPDATE OPERATION ON VIEW Losangeles_Flight
SQL> SELECT * FROM Losangeles_Flight;
```

FLIGHT	DDATE	DTIME	ADATE	ARRIVAL
JJ-2482	15-APR-05	1230	15-APR-05	1540
SQ-11	15-APR-05	1230	16-APR-05	2055

```
SQL> SELECT * FROM Schedule_15;
```

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
--------	-------	--------------	------------	-------	-------

ADATE	ATIME				
JJ-2482 LW100	Los Angeles	Washington D.C.	15-APR-05	1230	
15-APR-05	1540				
SQ-11 LT105	Los Angeles	Tokyo	15-APR-05	1230	
16-APR-05	2055				
A5-3246 CN151	Chicago	New York	15-APR-05	1810	
15-APR-05	1900				
9E-3851 MD200	Madison	Detroit	15-APR-05	1035	
15-APR-05	1140				
MQ-4477 DN250	Detroit	New York	15-APR-05	1510	
15-APR-05	1600				
RP-5018 MC201	Madison	Chicago	15-APR-05	2100	
15-APR-05	2155				
BA-178 NYL400	New York	London	15-APR-05	1140	
16-APR-05	1020				

7 rows selected.

SQL> SELECT \* FROM fl\_schedule WHERE flno='SQ-11';

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
SQ-11	15-APR-05	1230	16-APR-05	2055	780.99
SQ-11	27-SEP-20	1850	28-SEP-20	2100	

SQL> SELECT \* FROM flights WHERE flightno='SQ-11';

FLIGHTN	RID	AID
SQ-11	LT105	11

SQL>

SQL> UPDATE Losangeles\_Flight SET dtime=1300 WHERE flight='SQ-11';

1 row updated.

SQL>

SQL> SELECT \* FROM Losangeles\_Flight;

FLIGHT	DDATE	DTIME	ADATE	ARRIVAL
JJ-2482	15-APR-05	1230	15-APR-05	1540
SQ-11	15-APR-05	1300	16-APR-05	2055

SQL> SELECT \* FROM Schedule\_15;

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482 LW100	Los Angeles	Washington D.C.	15-APR-05	1230	
15-APR-05	1540				
SQ-11 LT105	Los Angeles	Tokyo	15-APR-05	1300	
16-APR-05	2055				
A5-3246 CN151	Chicago	New York	15-APR-05	1810	
15-APR-05	1900				
9E-3851 MD200	Madison	Detroit	15-APR-05	1035	
15-APR-05	1140				
MQ-4477 DN250	Detroit	New York	15-APR-05	1510	
15-APR-05	1600				
RP-5018 MC201	Madison	Chicago	15-APR-05	2100	
15-APR-05	2155				

```
BA-178  NYL400 New York          London          15-APR-05      1140
16-APR-05          1020
```

7 rows selected.

```
SQL> SELECT * FROM fl_schedule WHERE flno='SQ-11';
```

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
SQ-11	15-APR-05	1300	16-APR-05	2055	780.99
SQ-11	27-SEP-20	1850	28-SEP-20	2100	

```
SQL> SELECT * FROM flights WHERE flightno='SQ-11';
```

FLIGHTN	RID	AID
SQ-11	LT105	11

```
SQL>
```

```
SQL> REM: DELETE OPERATION ON VIEW Losangeles_Flight
```

```
SQL> SELECT * FROM Losangeles_Flight;
```

FLIGHT	DDATE	DTIME	ADATE	ARRIVAL
JJ-2482	15-APR-05	1230	15-APR-05	1540
SQ-11	15-APR-05	1300	16-APR-05	2055

```
SQL> SELECT * FROM Schedule_15;
```

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482	LW100	Los Angeles	Washington D.C.	15-APR-05	1230
15-APR-05		1540			
SQ-11	LT105	Los Angeles	Tokyo	15-APR-05	1300
16-APR-05		2055			
A5-3246	CN151	Chicago	New York	15-APR-05	1810
15-APR-05		1900			
9E-3851	MD200	Madison	Detroit	15-APR-05	1035
15-APR-05		1140			
MQ-4477	DN250	Detroit	New York	15-APR-05	1510
15-APR-05		1600			
RP-5018	MC201	Madison	Chicago	15-APR-05	2100
15-APR-05		2155			
BA-178	NYL400	New York	London	15-APR-05	1140
16-APR-05		1020			

7 rows selected.

```
SQL> SELECT * FROM fl_schedule WHERE flno='SQ-11';
```

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
SQ-11	15-APR-05	1300	16-APR-05	2055	780.99
SQ-11	27-SEP-20	1850	28-SEP-20	2100	

```
SQL> SELECT * FROM flights WHERE flightno='SQ-11';
```

FLIGHTN	RID	AID
SQ-11	LT105	11

```
SQL>
```

SQL> DELETE FROM Losangeles\_Flight WHERE flight='SQ-11';

1 row deleted.

SQL>

SQL> SELECT \* FROM Losangeles\_Flight;

FLIGHT	DDATE	DTIME	ADATE	ARRIVAL
JJ-2482	15-APR-05	1230	15-APR-05	1540

SQL> SELECT \* FROM Schedule\_15;

FLIGHT	ROUTE	FROM_AIRPORT	TO_AIRPORT	DDATE	DTIME
ADATE		ATIME			
JJ-2482	LW100	Los Angeles	Washington D.C.	15-APR-05	1230
15-APR-05		1540			
A5-3246	CN151	Chicago	New York	15-APR-05	1810
15-APR-05		1900			
9E-3851	MD200	Madison	Detroit	15-APR-05	1035
15-APR-05		1140			
MQ-4477	DN250	Detroit	New York	15-APR-05	1510
15-APR-05		1600			
RP-5018	MC201	Madison	Chicago	15-APR-05	2100
15-APR-05		2155			
BA-178	NYL400	New York	London	15-APR-05	1140
16-APR-05		1020			

6 rows selected.

SQL> SELECT \* FROM fl\_schedule WHERE flno='SQ-11';

FLNO	DEPARTS	DTIME	ARRIVES	ATIME	PRICE
SQ-11	27-SEP-20	1850	28-SEP-20	2100	

SQL> SELECT \* FROM flights WHERE flightno='SQ-11';

FLIGHTN	RID	AID
SQ-11	LT105	11

SQL> spool off