

@E:084_A4.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 AS

2 (

3 SELECT f.flightNo AS flight,

4 r.routeID AS route,

5 r.orig_airport AS from_airport,

6 r.dest_airport AS to_airport,

7 s.departs AS DDATE,

8 s.dtime AS DTIME,

9 s.arrives AS ADATE,

10 s.atime AS ATIME

11 FROM flights f, fl_schedule s, routes r

12 WHERE r.routeID = f.rid AND f.flightNo = s.flno AND departs = '15-APR-05'

13);

View created.

SQL>

SQL> REM View Contents

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> SAVEPOINT S1;

Savepoint created.

SQL>

SQL> REM Insering check

SQL>

SQL> INSERT INTO Schedule_15 VALUES('WN-484','LC101','Los Angeles','Chicago','15-APR-05',2140,'17-APR-05',0600);

INSERT INTO Schedule_15 VALUES('WN-484','LC101','Los Angeles','Chicago','15-APR-05',2140,'17-APR-05',0600)

*

ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL> REM *****

SQL> REM Updating Check
SQL>
SQL> SAVEPOINT S2;

Savepoint created.

SQL>
SQL> REM Before Updating
SQL>
SQL> SELECT * FROM schedule_15 WHERE flight='BA-178';

| FLIGHT | ROUTE | FROM_AIRPORT | TO_AIRPORT | DDATE | DTIME | ADATE | ATIME |
|--------|--------|--------------|------------|-----------|-------|-----------|-------|
| BA-178 | NYL400 | New York | London | 15-APR-05 | 1140 | 16-APR-05 | 1020 |

SQL> SELECT * FROM fl_schedule WHERE flno='BA-178';

| FLNO | DEPARTS | DTIME | ARRIVES | ATIME | PRICE |
|--------|-----------|-------|-----------|-------|-------|
| BA-178 | 15-APR-05 | 1140 | 16-APR-05 | 1020 | 250.5 |

SQL>
SQL> REM flight,route,from_airport,to_airport are not updatable columns
SQL>
SQL> UPDATE Schedule_15 SET flight = 'HA-1' WHERE flight='BA-178';
UPDATE Schedule_15 SET flight = 'HA-1' WHERE flight='BA-178'
*

ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL> UPDATE Schedule_15 SET route = 'LW100' WHERE flight='BA-178';
UPDATE Schedule_15 SET route = 'LW100' WHERE flight='BA-178'
*

ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL> UPDATE Schedule_15 SET from_airport = 'Chicago' WHERE flight='BA-178';
UPDATE Schedule_15 SET from_airport = 'Chicago' WHERE flight='BA-178'
*

ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table

SQL> UPDATE Schedule_15 SET to_airport = 'Chicago' WHERE flight='BA-178';

```
UPDATE Schedule_15 SET to_airport = 'Chicago' WHERE flight='BA-178'
```

*

ERROR at line 1:

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

```
SQL>
```

```
SQL> REM ddate,dttime,adate,atime are updatable columns
```

```
SQL> UPDATE Schedule_15 SET ddate = '15-APR-05',dttime = 1200,adate = '27-APR-05',atime = 1600 WHERE flight='BA-178';
```

1 row updated.

```
SQL>
```

```
SQL> REM After Updating
```

```
SQL> SELECT * FROM schedule_15 WHERE flight='BA-178';
```

| FLIGHT ROUTE | FROM_AIRPORT | TO_AIRPORT | DDATE | DTIME | ADATE | ATIME |
|---------------|--------------|------------|-----------|-------|-----------|-------|
| BA-178 NYL400 | New York | London | 15-APR-05 | 1200 | 27-APR-05 | 1600 |

```
SQL> SELECT * FROM fl_schedule WHERE flno='BA-178';
```

| FLNO | DEPARTS | DTIME | ARRIVES | ATIME | PRICE |
|--------|-----------|-------|-----------|-------|-------|
| BA-178 | 15-APR-05 | 1200 | 27-APR-05 | 1600 | 250.5 |

```
SQL>
```

```
SQL> REM Delete Check
```

```
SQL>
```

```
SQL> DELETE FROM Schedule_15 WHERE flight='BA-178';
```

1 row deleted.

```
SQL> SELECT * FROM fl_schedule WHERE flno='BA-178';
```

no rows selected

```
SQL>
```

```
SQL> ROLLBACK TO S1;
```

Rollback complete.

```
SQL> REM The above view is a updatable join view
```

```
SQL>
```

```
SQL> REM *****  
*****
```

```
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 a.type AS CRAFT_TYPE, count(*) AS TOTAL
3 FROM aircraft a
4 GROUP BY a.type);

```

View created.

```

SQL>
SQL> REM Display tables before operations
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> SELECT * FROM Aircraft;

```

| AID | ANAME | TYPE | CRUISINGRANGE |
|-----|--------------------------------|-----------|---------------|
| 1 | Boeing 747-400 | Boeing | 8430 |
| 2 | Boeing 737-800 | Boeing | 3383 |
| 3 | Airbus A340-300 | Airbus | 7120 |
| 4 | British Aerospace Jetstream 41 | BAe | 1502 |
| 5 | Embraer ERJ-145 | Embraer | 1530 |
| 6 | SAAB 340 | Saab | 2128 |
| 7 | Piper PA-46 Meridian | Piper | 520 |
| 8 | Tupolev Tu-154 | Tupolev | 4103 |
| 16 | Schweizer 2-33 | Schweizer | 300 |
| 9 | Lockheed L1011 Tristar | Lockheed | 6900 |
| 10 | Boeing 757-300 | Boeing | 4010 |
| 11 | Boeing 777-300 | Boeing | 6441 |
| 12 | Boeing 767-400ER | Boeing | 6475 |
| 13 | Airbus A320 | Airbus | 2605 |
| 14 | Airbus A319 | Airbus | 1805 |
| 15 | Boeing 727 | Boeing | 1504 |

16 rows selected.

```

SQL> REM *****

```

SQL> SAVEPOINT S2;

Savepoint created.

SQL>

SQL> REM Insert check:NOT possible

SQL>

SQL> INSERT INTO Airtype values ('Aircar',100);

INSERT INTO Airtype values ('Aircar',100)

*

ERROR at line 1:

ORA-01733: virtual column not allowed here

SQL> REM *****

SQL> REM Update check:Non updatable

SQL> UPDATE Airtype SET craft_type='Aircar' WHERE total=3;

UPDATE Airtype SET craft_type='Aircar' WHERE total=3

*

ERROR at line 1:

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

SQL>

SQL> REM *****

SQL> REM Delete Check:Not possible

SQL> DELETE FROM Airtype WHERE total=6;

DELETE FROM Airtype WHERE total=6

*

ERROR at line 1:

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

SQL> REM *****

SQL> REM Table after operations

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> SELECT * FROM Aircraft;

| AID ANAME | TYPE | CRUISINGRANGE |
|--------------------------------------|-----------|---------------|
| 1 Boeing 747-400 | Boeing | 8430 |
| 2 Boeing 737-800 | Boeing | 3383 |
| 3 Airbus A340-300 | Airbus | 7120 |
| 4 British Aerospace Jetstream 41 BAe | | 1502 |
| 5 Embraer ERJ-145 | Embraer | 1530 |
| 6 SAAB 340 | Saab | 2128 |
| 7 Piper PA-46 Meridian | Piper | 520 |
| 8 Tupolev Tu-154 | Tupolev | 4103 |
| 16 Schweizer 2-33 | Schweizer | 300 |
| 9 Lockheed L1011 Tristar | Lockheed | 6900 |
| 10 Boeing 757-300 | Boeing | 4010 |

| AID ANAME | TYPE | CRUISINGRANGE |
|---------------------|--------|---------------|
| 11 Boeing 777-300 | Boeing | 6441 |
| 12 Boeing 767-400ER | Boeing | 6475 |
| 13 Airbus A320 | Airbus | 2605 |
| 14 Airbus A319 | Airbus | 1805 |
| 15 Boeing 727 | Boeing | 1504 |

16 rows selected.

SQL>

SQL> ROLLBACK TO S2;

Rollback complete.

SQL>

SQL> REM The above view is a non updatable view as it is made up of aggregate function

SQL>

SQL> REM *****

SQL>

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 routeID,
3 orig_airport AS from_airport,
4 dest_airport AS to_airport,
5 distance
6 FROM routes
7 WHERE (orig_airport IN ('Los Angeles') OR dest_airport IN ('Los Angeles'))
8 WITH CHECK OPTION;

View created.

SQL>

SQL> SELECT * FROM Losangeles_Route;

| ROUTE | FROM_AIRPORT | TO_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>

SQL> SAVEPOINT S3;

Savepoint created.

SQL> REM *****

SQL> REM Before Insert

SQL> SELECT * FROM Routes where routeID='BV099';

no rows selected

SQL>

SQL> REM Insert possible

SQL> INSERT INTO Losangeles_Route VALUES ('BV099','Los Angeles','Houston',4200);

1 row created.

SQL>

SQL> REM After Insert

SQL> SELECT * FROM Routes where routeID='BV099';

| ROUTE | ORIG_AIRPORT | DEST_AIRPORT | DISTANCE |
|-------|--------------|--------------|----------|
| BV099 | Los Angeles | Houston | 4200 |

SQL> SELECT * FROM Losangeles_Route where routeID='BV099';

| ROUTE | FROM_AIRPORT | TO_AIRPORT | DISTANCE |
|-------|--------------|------------|----------|
| BV099 | Los Angeles | Houston | 4200 |

```
SQL> REM *****
*****
```

```
SQL> REM Update Check:Possible on all columns
```

```
SQL>
```

```
SQL> REM Before Update
```

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

```
ROUTEI FROM_AIRPORT    TO_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 |
| BV099 | Los Angeles | Houston | 4200 |

```
10 rows selected.
```

```
SQL> SELECT * FROM routes WHERE orig_airport = 'Los Angeles' OR dest_airport = 'Los Angeles';
```

```
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 |
| BV099 | Los Angeles | Houston | 4200 |

```
10 rows selected.
```

```
SQL>
```

```
SQL>
```

```
SQL> UPDATE Losangeles_Route
```

```
2 SET routeID = 'LE069',
```

```
3   from_airport = 'Los Angeles',
```

```
4   to_airport = 'Boston',
```

```
5   distance = 1420
```

```
6 WHERE routeID = 'BV099';
```

```
1 row updated.
```

```
SQL>
```

```
SQL> REM After Update
```



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

| ROUTE | FROM_AIRPORT | TO_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 |
| LE069 | Los Angeles | Boston | 1420 |

10 rows selected.

```
SQL> SELECT * FROM routes WHERE orig_airport = 'Los Angeles' OR dest_airport = 'Los Angeles';
```

| ROUTE | 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 |
| LE069 | Los Angeles | Boston | 1420 |

10 rows selected.

```
SQL>
```

```
SQL> REM Delete Check:Possible
```

```
SQL>
```

```
SQL> DELETE FROM Losangeles_Route WHERE routeID = 'LE069';
```

1 row deleted.

```
SQL>
```

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

| ROUTE | FROM_AIRPORT | TO_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 WHERE orig_airport = 'Los Angeles' OR dest_airport = 'Los Angeles';
```

| ROUTE | 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>
SQL>
SQL> ROLLBACK TO S3;
```

Rollback complete.

```
SQL>
SQL> REM It is a updatable view
SQL>
SQL> REM *****
*****
SQL>
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,
3     ddate,
4     dtime,
5     adate,
6     atime
7  FROM Schedule_15
8  WHERE from_airport IN ('Los Angeles'));
```

View created.

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

| FLIGHT | DDATE | DTIME | ADATE | ATIME |
|--------|-------|-------|-------|-------|
|--------|-------|-------|-------|-------|

| | | | | |
|---------|-----------|------|-----------|------|
| JJ-2482 | 15-APR-05 | 1230 | 15-APR-05 | 1540 |
| SQ-11 | 15-APR-05 | 1230 | 16-APR-05 | 2055 |
| HA-1 | 15-APR-05 | 1110 | 15-APR-05 | 1445 |

SQL> REM *****

SQL> SAVEPOINT S4;

Savepoint created.

SQL>

SQL> REM:Insert Check:Not possible

SQL>

SQL> INSERT INTO Losangeles_Flight VALUES('VG-1000','14-APR-05',0010,'15-APR-05',0010);

INSERT INTO Losangeles_Flight VALUES('VG-1000','14-APR-05',0010,'15-APR-05',0010)

*

ERROR at line 1:

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

SQL>

SQL> REM *****

SQL> REM Update Check atime,adate,dtime,ddate are updatable

SQL>

SQL> REM Before update

SQL> SELECT * from Schedule_15 WHERE flight='SQ-11';

| FLIGHT | ROUTE | FROM_AIRPORT | TO_AIRPORT | DDATE | DTIME | ADATE | ATIME |
|--------|-------|--------------|------------|-----------|-------|-----------|-------|
| SQ-11 | LT105 | Los Angeles | Tokyo | 15-APR-05 | 1230 | 16-APR-05 | 2055 |

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>

SQL> UPDATE Losangeles_Flight SET flight = 'HA-1' WHERE flight = 'SQ-11';

UPDATE Losangeles_Flight SET flight = 'HA-1' WHERE flight = 'SQ-11'

*

ERROR at line 1:

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

SQL>

SQL> UPDATE Losangeles_Flight SET ddate = '15-APR-05',dtime = 1330,adate = '17-APR-05',atime = 1440 WHERE flight = 'SQ-11';

1 row updated.

SQL>

SQL> REM After update

SQL> SELECT * from Schedule_15 WHERE flight='SQ-11';

| FLIGHT | ROUTE | FROM_AIRPORT | TO_AIRPORT | DDATE | DTIME | ADATE | ATIME |
|--------|-------|--------------|------------|-----------|-------|-----------|-------|
| SQ-11 | LT105 | Los Angeles | Tokyo | 15-APR-05 | 1330 | 17-APR-05 | 1440 |

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

| FLNO | DEPARTS | DTIME | ARRIVES | ATIME | PRICE |
|-------|-----------|-------|-----------|-------|--------|
| SQ-11 | 15-APR-05 | 1330 | 17-APR-05 | 1440 | 780.99 |

SQL> SELECT * FROM Losangeles_Flight;

| FLIGHT | DDATE | DTIME | ADATE | ATIME |
|---------|-----------|-------|-----------|-------|
| JJ-2482 | 15-APR-05 | 1230 | 15-APR-05 | 1540 |
| SQ-11 | 15-APR-05 | 1330 | 17-APR-05 | 1440 |
| HA-1 | 15-APR-05 | 1110 | 15-APR-05 | 1445 |

SQL> REM *****

SQL> REM DELETION CHECK:possible

SQL>

SQL> SELECT * FROM fl_schedule WHERE flno='JJ-2482';

| FLNO | DEPARTS | DTIME | ARRIVES | ATIME | PRICE |
|---------|-----------|-------|-----------|-------|--------|
| JJ-2482 | 15-APR-05 | 1230 | 15-APR-05 | 1540 | 235.98 |
| JJ-2482 | 22-APR-05 | 1230 | 22-APR-05 | 1540 | 235.98 |

SQL> SELECT * from Schedule_15 WHERE flight='JJ-2482';

| 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 |

SQL> DELETE FROM Losangeles_Flight WHERE flight = 'JJ-2482';

1 row deleted.

SQL> SELECT * from Schedule_15 WHERE flight='JJ-2482';

no rows selected

SQL> SELECT * FROM fl_schedule WHERE flno='JJ-2482';

| FLNO | DEPARTS | DTIME | ARRIVES | ATIME | PRICE |
|------|---------|-------|---------|-------|-------|
|------|---------|-------|---------|-------|-------|

JJ-2482 22-APR-05 1230 22-APR-05 1540 235.98

SQL>

SQL> ROLLBACK TO S4;

Rollback complete.

SQL>

SQL> REM It is a updatable join view

SQL>

SQL> REM *****

SQL>

SQL>

SQL>

SQL>