**UCS1412 – Database Lab**

**Assignment – 4**

**NAME:** Rahul Ram M

**ROLL NO:** 185001121

SQL> set linesize 175;

SQL>

SQL> --1. Create a view Schedule\_15 that display the flight number, route,

SQL> --airport(origin, destination), departure (date, time),arrival (date, time)

SQL> --of a flight on 15 apr 2005. Label the view column as flight, route,

SQL> --from\_airport, to\_airport, ddate, dtime, adate, atime respectively.

SQL> create or replace view Schedule\_15

2 (flight, route, from\_airport, to\_airport, ddate, dtime, adate, atime)

3 as select flno, rid, orig\_airport, dest\_airport, departs, dtime, arrives, atime

4 from fl\_schedule fs, routes r, flights f

5 where fs.flno = f.flightno and f.rid = r.routeid and departs = '15-APR-05';

View created.

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> --Performing update operations on the view Schedule\_15

SQL> --INSERTION

SQL> select \* from Schedule\_15 where flight = 'AK-0047';

no rows selected

SQL> select \* from fl\_schedule where flno = 'AK-0047';

no rows selected

SQL> insert into Schedule\_15 values

2 ('AK-0047','AK047','Texas','Abu Dhabi','15-apr-05',1800,'16-apr-05',2000);

insert into Schedule\_15 values

\*

ERROR at line 1:

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

SQL> select \* from Schedule\_15 where flight = 'AK-0047';

no rows selected

SQL> select \* from fl\_schedule where flno = 'AK-0047';

no rows selected

SQL>

SQL> --UPDATION

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> update Schedule\_15

2 set flight = 'A1-1234' where flight = 'BA-178';

update Schedule\_15

\*

ERROR at line 1:

ORA-02291: integrity constraint (HR.FNO\_FK) violated - parent key not found

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> select \* from Schedule\_15 where flight = 'A5-3246';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

A5-3246 CN151 Chicago New York 15-APR-05 1810 15-APR-05 1900

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 15-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL> update Schedule\_15

2 set route = 'NYL400' where flight = 'A5-3246';

set route = 'NYL400' where flight = 'A5-3246'

\*

ERROR at line 2:

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

SQL>

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

A5-3246 CN151 Chicago New York 15-APR-05 1810 15-APR-05 1900

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 15-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL> update Schedule\_15

2 set from\_airport = 'Detroit' where flight = 'A5-3246';

set from\_airport = 'Detroit' where flight = 'A5-3246'

\*

ERROR at line 2:

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

SQL>

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

A5-3246 CN151 Chicago New York 15-APR-05 1810 15-APR-05 1900

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 15-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL> update Schedule\_15

2 set to\_airport = 'Tokyo' where flight = 'A5-3246';

set to\_airport = 'Tokyo' where flight = 'A5-3246'

\*

ERROR at line 2:

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

SQL>

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

A5-3246 CN151 Chicago New York 15-APR-05 1810 15-APR-05 1900

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 15-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL> update Schedule\_15

2 set ddate = '01-Apr-2005' where flight = 'A5-3246';

1 row updated.

SQL>

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

no rows selected

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 01-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL> update Schedule\_15

2 set dtime = 1000 where flight = 'A5-3246';

0 rows updated.

SQL>

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

no rows selected

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 01-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL> update Schedule\_15

2 set adate = '02-Apr-2005' where flight = 'A5-3246';

0 rows updated.

SQL>

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

no rows selected

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 01-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL> update Schedule\_15

2 set atime = 1000 where flight = 'A5-3246';

0 rows updated.

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

no rows selected

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 01-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL>

SQL> --DELETION

SQL> delete from Schedule\_15

2 where flight = 'A5-3246';

0 rows deleted.

SQL> select \* from Schedule\_15 where flight = 'A5-3246';

no rows selected

SQL> select \* from fl\_schedule where flno = 'A5-3246';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

A5-3246 01-APR-05 1810 15-APR-05 1900 202.45

A5-3246 22-APR-05 1810 22-APR-05 1900 202.45

SQL>

SQL>

SQL> --2. Define a view Airtype that display the number of aircrafts

SQL> --for each of its type. Label the column as craft\_type, total.

SQL> create or replace view Airtype (craft\_type, total)

2 as select type, count(type)

3 from aircraft

4 group by(type);

View created.

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> --Performing update operations on the view Airtype

SQL> --INSERTION

SQL> select count(\*) from aircraft where type = 'Boeing';

COUNT(\*)

----------

6

SQL> select count(\*) from aircraft where type = 'Boeing';

COUNT(\*)

----------

6

SQL> insert into Airtype values

2 ('Boeing',7);

insert into Airtype values

\*

ERROR at line 1:

ORA-01733: virtual column not allowed here

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 count(\*) from aircraft where type = 'Boeing';

COUNT(\*)

----------

6

SQL>

SQL> --UPDATION

SQL> select \* from Airtype where craft\_type = 'BAe';

CRAFT\_TYPE TOTAL

---------- ----------

BAe 1

SQL> select count(\*) from aircraft where type = 'BAe';

COUNT(\*)

----------

1

SQL>

SQL> update Airtype

2 set total = 3 where craft\_type = 'BAe';

update Airtype

\*

ERROR at line 1:

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

SQL>

SQL> select \* from Airtype where craft\_type = 'BAe';

CRAFT\_TYPE TOTAL

---------- ----------

BAe 1

SQL> select count(\*) from aircraft where type = 'BAe';

COUNT(\*)

----------

1

SQL>

SQL> update Airtype

2 set craft\_type = 'Boeing' where craft\_type = 'BAe';

update Airtype

\*

ERROR at line 1:

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

SQL>

SQL> select \* from Airtype where craft\_type = 'BAe';

CRAFT\_TYPE TOTAL

---------- ----------

BAe 1

SQL> select count(\*) from aircraft where type = 'BAe';

COUNT(\*)

----------

1

SQL>

SQL> --DELETION

SQL> select \* from Airtype where craft\_type = 'Piper';

CRAFT\_TYPE TOTAL

---------- ----------

Piper 1

SQL> select count(\*) from aircraft where type = 'Piper';

COUNT(\*)

----------

1

SQL> delete from Airtype

2 where craft\_type = 'Piper';

delete from Airtype

\*

ERROR at line 1:

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

SQL> select \* from Airtype where craft\_type = 'Piper';

CRAFT\_TYPE TOTAL

---------- ----------

Piper 1

SQL> select count(\*) from aircraft where type = 'Piper';

COUNT(\*)

----------

1

SQL>

SQL> --3. Create a view Losangeles\_Route that contains Los Angeles in the route.

SQL> --Ensure that the view always contain/allows only information

SQL> --about the Los Angeles route.

SQL> create or replace view Losangeles\_Route

2 as select \* from routes

3 where (orig\_airport = 'Los Angeles' or dest\_airport = 'Los Angeles')

4 with check option constraint los\_angeles\_chk;

View created.

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>

SQL> --Performing update operations on the view Losangeles\_Route

SQL> --INSERTION

SQL> select \* from Losangeles\_Route where routeid = 'LA007';

no rows selected

SQL> select \* from routes where routeid = 'LA007';

no rows selected

SQL> insert into Losangeles\_Route values

2 ('LA007','Texas','Abu Dhabi',2308);

insert into Losangeles\_Route values

\*

ERROR at line 1:

ORA-01402: view WITH CHECK OPTION where-clause violation

SQL>

SQL> insert into Losangeles\_Route values

2 ('LA007','Los Angeles','Abu Dhabi',2308);

1 row created.

SQL>

SQL> select \* from Losangeles\_Route where routeid = 'LA007';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LA007 Los Angeles Abu Dhabi 2308

SQL> select \* from routes where routeid = 'LA007';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LA007 Los Angeles Abu Dhabi 2308

SQL>

SQL> --UPDATION

SQL> select \* from Losangeles\_Route where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles New York 2510

SQL> select \* from routes where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles New York 2510

SQL>

SQL> update Losangeles\_Route

2 set distance = 4700 where routeid = 'LNY107';

1 row updated.

SQL>

SQL> select \* from Losangeles\_Route where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles New York 4700

SQL> select \* from routes where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles New York 4700

SQL>

SQL> update Losangeles\_Route

2 set orig\_airport = 'Chicago' where routeid = 'LNY107';

update Losangeles\_Route

\*

ERROR at line 1:

ORA-01402: view WITH CHECK OPTION where-clause violation

SQL>

SQL> select \* from Losangeles\_Route where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles New York 4700

SQL> select \* from routes where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles New York 4700

SQL>

SQL> update Losangeles\_Route

2 set dest\_airport = 'Sydney' where routeid = 'LNY107';

1 row updated.

SQL>

SQL> select \* from Losangeles\_Route where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles Sydney 4700

SQL> select \* from routes where routeid = 'LNY107';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LNY107 Los Angeles Sydney 4700

SQL>

SQL> update Losangeles\_Route

2 set routeid = 'CS107' where routeid = 'LNY107';

update Losangeles\_Route

\*

ERROR at line 1:

ORA-02292: integrity constraint (HR.RID\_FK) violated - child record found

SQL>

SQL> --DELETION

SQL> select \* from Losangeles\_Route where routeid = 'LD102';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LD102 Los Angeles Dallas 1251

SQL> select \* from routes where routeid = 'LD102';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LD102 Los Angeles Dallas 1251

SQL> delete from Losangeles\_Route

2 where routeid = 'LD102';

delete from Losangeles\_Route

\*

ERROR at line 1:

ORA-02292: integrity constraint (HR.RID\_FK) violated - child record found

SQL> select \* from Losangeles\_Route where routeid = 'LD102';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LD102 Los Angeles Dallas 1251

SQL> select \* from routes where routeid = 'LD102';

ROUTEI ORIG\_AIRPORT DEST\_AIRPORT DISTANCE

------ -------------------- -------------------- ----------

LD102 Los Angeles Dallas 1251

SQL>

SQL> INSERT INTO Losangeles\_Route VALUES ('CN152','Chicago','New York',802);

INSERT INTO Losangeles\_Route VALUES ('CN152','Chicago','New York',802)

\*

ERROR at line 1:

ORA-01402: view WITH CHECK OPTION where-clause violation

SQL>

SQL> --4. Create a view named Losangeles\_Flight on Schedule\_15 (as defined in 1)

SQL> --that display flight, departure (date, time), arrival (date, time)

SQL> --of flight(s) from Los Angeles.

SQL> create or replace view Losangeles\_Flight

2 (flight, route, from\_airport, to\_airport, ddate, dtime, adate, atime)

3 as select \* from Schedule\_15

4 where (from\_airport = 'Los Angeles' or to\_airport = 'Los Angeles');

View created.

SQL> select \* from Losangeles\_Flight;

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

SQL>

SQL> --Performing update operations on the view Losangeles\_Flight

SQL> --INSERTION

SQL> select \* from Losangeles\_Flight where flight = 'LT-0047';

no rows selected

SQL> select \* from fl\_schedule where flno = 'LT-0047';

no rows selected

SQL> insert into Losangeles\_Flight values

2 ('LT-0047','LT047','Los Angeles','Texas','15-apr-05',1800,'16-apr-05',2000);

insert into Losangeles\_Flight values

\*

ERROR at line 1:

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

SQL> select \* from Losangeles\_Flight where flight = 'LT-0047';

no rows selected

SQL> select \* from fl\_schedule where flno = 'LT-0047';

no rows selected

SQL>

SQL> --UPDATION

SQL> select \* from Losangeles\_Flight 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

2 set route = 'AK047' where flight = 'SQ-11';

set route = 'AK047' where flight = 'SQ-11'

\*

ERROR at line 2:

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

SQL>

SQL> select \* from Losangeles\_Flight 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

2 set from\_airport = 1018 where flight = 'SQ-11';

set from\_airport = 1018 where flight = 'SQ-11'

\*

ERROR at line 2:

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

SQL>

SQL> select \* from Losangeles\_Flight 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

2 set to\_airport = 1018 where flight = 'SQ-11';

set to\_airport = 1018 where flight = 'SQ-11'

\*

ERROR at line 2:

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

SQL>

SQL> select \* from Losangeles\_Flight 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

2 set ddate = 1018 where flight = 'SQ-11';

set ddate = 1018 where flight = 'SQ-11'

\*

ERROR at line 2:

ORA-00932: inconsistent datatypes: expected DATE got NUMBER

SQL>

SQL> select \* from Losangeles\_Flight 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

2 set dtime = 1018 where flight = 'SQ-11';

1 row updated.

SQL>

SQL> select \* from Losangeles\_Flight where flight = 'SQ-11';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

SQ-11 LT105 Los Angeles Tokyo 15-APR-05 1018 16-APR-05 2055

SQL> select \* from fl\_schedule where flno = 'SQ-11';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

SQ-11 15-APR-05 1018 16-APR-05 2055 780.99

SQL>

SQL> update Losangeles\_Flight

2 set adate = 1018 where flight = 'SQ-11';

set adate = 1018 where flight = 'SQ-11'

\*

ERROR at line 2:

ORA-00932: inconsistent datatypes: expected DATE got NUMBER

SQL>

SQL> select \* from Losangeles\_Flight where flight = 'SQ-11';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

SQ-11 LT105 Los Angeles Tokyo 15-APR-05 1018 16-APR-05 2055

SQL> select \* from fl\_schedule where flno = 'SQ-11';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

SQ-11 15-APR-05 1018 16-APR-05 2055 780.99

SQL>

SQL> update Losangeles\_Flight

2 set atime = 1018 where flight = 'SQ-11';

1 row updated.

SQL>

SQL> select \* from Losangeles\_Flight where flight = 'SQ-11';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

SQ-11 LT105 Los Angeles Tokyo 15-APR-05 1018 16-APR-05 1018

SQL> select \* from fl\_schedule where flno = 'SQ-11';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

SQ-11 15-APR-05 1018 16-APR-05 1018 780.99

SQL>

SQL> update Losangeles\_Flight

2 set flight = 'AK-47' where flight = 'SQ-11';

update Losangeles\_Flight

\*

ERROR at line 1:

ORA-02291: integrity constraint (HR.FNO\_FK) violated - parent key not found

SQL>

SQL> select \* from Losangeles\_Flight where flight = 'SQ-11';

FLIGHT ROUTE FROM\_AIRPORT TO\_AIRPORT DDATE DTIME ADATE ATIME

------- ------ -------------------- -------------------- --------- ---------- --------- ----------

SQ-11 LT105 Los Angeles Tokyo 15-APR-05 1018 16-APR-05 1018

SQL> select \* from fl\_schedule where flno = 'SQ-11';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

SQ-11 15-APR-05 1018 16-APR-05 1018 780.99

SQL>

SQL> --DELETION

SQL> select \* from Losangeles\_Flight where flight = 'JJ-7456';

no rows selected

SQL> select \* from fl\_schedule where flno = 'JJ-7456';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

------- --------- ---------- --------- ---------- ----------

JJ-7456 12-APR-05 930 12-APR-05 1240 235.98

JJ-7456 19-APR-05 930 19-APR-05 1240 235.98

SQL> delete from Losangeles\_Flight

2 where flight = 'JJ-7456';

0 rows deleted.

SQL> select \* from Losangeles\_Flight where flight = 'JJ-7456';

no rows selected

SQL> select \* from fl\_schedule where flno = 'JJ-7456';

FLNO DEPARTS DTIME ARRIVES ATIME PRICE

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JJ-7456 12-APR-05 930 12-APR-05 1240 235.98

JJ-7456 19-APR-05 930 19-APR-05 1240 235.98

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