

REM: Assignment 4 – VIEWS

REM: LAKSHMI PRIYA B

REM: 185001083

REM: \*\*\*\*\*

set echo ON;

@z:/ex4/air\_main.sql

REM: CREATE [OR REPLACE] VIEW view\_name[(alias[, alias]...)]

REM: AS subquery[WITH CHECK OPTION [CONSTRAINT constraint]

REM: 1. Create a view Schedule\_15 that display the flight number, route,

REM: airport(origin, destination) departure (date, time), arrival (date, time)

REM: of a flight on 15 apr 2005. Label the view column as flight, route,

REM: from\_airport, to\_airport, ddate, dtime, adate, atime respectively.

CREATE OR REPLACE

VIEW Schedule\_15(flight, route, from\_airport, to\_airport, ddate, dtime, adate, atime)

AS SELECT flightno, routeid, orig\_airport, dest\_airport, departs, dtime, arrives, atime

FROM routes, flights, fl\_schedule

WHERE routeid=rid AND flightno=flno AND departs='15-APR-05';

SELECT \* FROM schedule\_15;

REM: 2. Define a view Airtype that display the number of aircrafts for each

REM: of its type. Label the column as craft\_type, total.

CREATE OR REPLACE

VIEW airtype(craft\_type, total)

AS SELECT type, COUNT(\*)

FROM aircraft

GROUP BY type;

SELECT \* FROM airtype;

REM: 3. Create a view Losangeles\_Route that contains Los Angeles in the route.

REM: Ensure that the view always contain/allows only information about the

REM: Los Angeles route.

CREATE OR REPLACE

VIEW Losangeles\_Route

```
AS SELECT *
  FROM routes
  WHERE orig_airport='Los Angeles' OR dest_airport='Los Angeles'
WITH CHECK CONSTRAINT;

INSERT INTO losangeles_route VALUES('ZZZZ','Chennai','Delhi',4545);
```

REM: 4. Create a view named Losangeles\_Flight on Schedule\_15 (as defined in 1)  
REM: that display flight, departure (date, time), arrival (date, time) of  
REM: flight(s) from Los Angeles.

```
CREATE OR REPLACE
VIEW Losangeles_Flight
AS SELECT flight, ddate, dtime, adate, atime
  FROM schedule_15
  WHERE from_airport='Los Angeles';
```

```
SELECT * FROM losangeles_flight;
```

REM: SCHEDULE\_15

```
REM: INSERT
INSERT INTO
schedule_15 VALUES('ZZ-00', 'ZZ', 'Z', 'ZZ','11-JAN-06', 1234, '12-JAN-06', 0100);
SELECT * FROM flights WHERE flightno='ZZ-00';
```

```
REM: UPDATE
UPDATE schedule_15 SET flight='HA-1111' WHERE flight='HA-1';
SELECT * FROM flights WHERE flightno='HA-1111';
```

```
REM: DELETE
DELETE FROM schedule_15 WHERE flight='HA-1';
SELECT * FROM schedule_15 WHERE flight='HA-1';
SELECT * FROM flights WHERE flightno='HA-1';
```

REM: AIRTYPE

```
REM: INSERT
INSERT INTO airtype VALUES('Air India', 10);
SELECT * FROM aircraft WHERE type='Air India';
```

```
REM: UPDATE
UPDATE airtype SET craft_type='ZZ' WHERE total=1;
UPDATE airtype SET craft_type='ZZ' WHERE craft_type='Saab'
SELECT * FROM aircraft;
```

```
REM: DELETE
DELETE FROM airtype WHERE total=1;
DELETE FROM airtype WHERE craft_type='Saab';
SELECT * FROM airtype;
SELECT * FROM aircraft;
```

```
REM: LOSANGELES_ROUTE
```

```
REM: INSERT
INSERT INTO losangeles_route VALUES('ZZ','Boston','Los Angeles', 3000);
SELECT * FROM losangeles_route;
SELECT * FROM routes;
```

```
REM: UPDATE
UPDATE losangeles_route SET orig_airport='Chicago' WHERE distance=3000;
SELECT * FROM losangeles_route;
SELECT * FROM routes;
```

```
REM: DELETE
DELETE FROM losangeles_route WHERE routeid='ZZ';
SELECT * FROM losangeles_route;
```

```
REM: LOSANGELES_FLIGHT
```

```
REM: INSERT
INSERT INTO losangeles_flight VALUES ('ZZ','15-APR-05',1500,'16-APR-05',1800);
SELECT * FROM losangeles_flight;
SELECT * FROM schedule_15;
```

```
REM: UPDATE
UPDATE losangeles_flight SET dtime=2130 WHERE flight='SQ-11';
SELECT * FROM losangeles_flight;
SELECT * FROM schedule_15;
SELECT * FROM fl_schedule WHERE flno='SQ-11'
```

```
REM: DELETE
DELETE FROM losangeles_flight WHERE flight='SQ-11';
SELECT * FROM losangeles_flight;
SELECT * FROM schedule_15;
SELECT * FROM fl_schedule WHERE flno='SQ-11';
```

```
DELETE FROM losangeles_flight where dtime=1230;
SELECT * FROM losangeles_flight;
SELECT * FROM schedule_15;
```

```
REM: *****
```

```
REM: LAKSHMI PRIYA B
```

```
REM: 185001083
```

```
REM: *****
```