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rem Harshini S-185001058
SQL> -- 1. The date of arrival should be always later than or on the same date of departure.
SQL> create or replace trigger lag_date
 2 before insert on fl schedule for each row
 3 when(new.departs>new.arrives)
 4 BEGIN
 5 raise application error(-20000, 'Error: Departs after arrival!');
 6 END;
 7 /
Trigger created.
SQL> INSERT INTO fl_schedule VALUES
('9W-3851','12-apr-2005',0710,'11-apr-2005',0800,120.40);
INSERT INTO fl_schedule VALUES ('9W-3851','12-apr-2005',0710,'11-apr-2005',0800,120.40)
ERROR at line 1:
ORA-20000: Error:Departs after arrival!
ORA-06512: at "SYSTEM.LAG DATE", line 2
ORA-04088: error during execution of trigger 'SYSTEM.LAG DATE'
SQL> INSERT INTO fl schedule VALUES
('9E-3851','11-apr-2005',0710,'12-apr-2005',0800,120.40);
1 row created.
SQL> -- 2. Flight number CX-7520 is scheduled only on Tuesday, Friday and Sunday.
SQL> create or replace trigger day spec
 2 before insert on fl schedule for each row
 3 DECLARE
 4 d date:
 5 BEGIN
 6 d:=:new.departs;
 7 dbms_output.put_line(to_char(d,'D'));
 8 if(substr(to_char(d,'Day'),1,3) not in ('Tue') and substr(to_char(d,'Day'),1,3) not in ('Fri') and
 9 substr(to_char(d,'Day'),1,3) not in ('Sun') and :new.flno='CX-7520') then
10 raise_application_error(-20343,'Error:Scheduled on invalid days!');
11 end if;
12 END;
13 /
```

Trigger created.

```
SQL> rem insertin of CX-7520 scheduled on friday.
SQL> INSERT INTO fl_schedule VALUES
('CX-7520','15-apr-2005',0730,'16-apr-2005',0840,225.43);
1 row created.
SQL> rem insertin of CX-7520 scheduled on thursday.
SQL> INSERT INTO fl schedule VALUES
('CX-7520','14-apr-2005',0730,'16-apr-2005',0840,225.43);
INSERT INTO fl schedule VALUES ('CX-7520','14-apr-2005',0730,'16-apr-2005',0840,225.43)
ERROR at line 1:
ORA-20343: Error:Scheduled on invalid days!
ORA-06512: at "SYSTEM.DAY SPEC", line 8
ORA-04088: error during execution of trigger 'SYSTEM.DAY SPEC'
SQL> -- 3. An aircraft is assigned to a flight only if its cruising range is more than the distance of
the
SQL> -- flights' route.
SQL> create or replace trigger assign_fl
 2 before insert on flights for each row
 3 DECLARE
 4 d routes.distance%type;
 5 cr aircraft.cruisingrange%type;
 6 BEGIN
 7 select routes.distance into d from routes where routes.routeid=:new.rid;
 8 select cruisingrange into cr from aircraft where aid=:new.aid;
 9 if(cr<d) then
10 raise application error(-20350, 'Error: Invalid assignment!');
11 end if;
12 END;
13 /
Trigger created.
SQL> rem cruising range of 7(520) is lesser than LW100(2308)
SQL> INSERT INTO flights VALUES ('9W-3749','LW100',7);
INSERT INTO flights VALUES ('9W-3749','LW100',7)
ERROR at line 1:
```

ORA-20350: Error:Invalid assignment!

ORA-06512: at "SYSTEM.ASSIGN_FL", line 8
ORA-04088: error during execution of trigger 'SYSTEM.ASSIGN_FL'

SQL> rem cruising range of 1(8430) is lesser than LW100(2308) SQL> INSERT INTO flights VALUES ('9W-3749','LW100',1);

1 row created.

SQL> spool off;