Reg. no.: 205001057

LAB TEST – 1 Script File

```
SQL> @z:/test.sql;
SQL> REM *** LAB TEST
                                     23/4/22 ***
SQL>
SQL> REM Dropping tables
SQL>
SQL> drop table drive_truck;
Table dropped.
SQL> drop table truck;
Table dropped.
SQL> drop table city;
Table dropped.
SQL> drop table driver;
Table dropped.
SQL>
SQL> REM Creating tables
SQL>
SQL> create table driver(
 2
         dcode varchar2(5)
 3
                constraint driver_pk primary key
 4
                 constraint d_format check(dcode like 'D%'),
 5
         dname varchar2(15),
 6
         dob date,
 7
         gender varchar2(6)
 8
         );
Table created.
SQL>
SQL> create table city(
         ccode varchar2(5) constraint city_pk primary key,
 2
 3
         cname varchar(15),
         constraint code_uniq unique(ccode,cname)
 4
 5
```

Table created.

```
SQL>
SQL> create table truck(
          truckcode varchar2(5) constraint truck pk primary key,
 3
          ttype varchar2(1) constraint type_chk check(ttype in ('L','H'))
 4
          ):
Table created.
SQL>
SQL> create table drive_truck(
          truckcode varchar2(5) constraint truck_fk1 references truck(truckcode),
 3
          dcode varchar2(5) constraint driver_fk1 references driver(dcode),
 4
          dot date.
 5
          ccode varchar2(5) constraint city_fk1 references city(ccode),
 6
          constraint drive_pk primary key(truckcode,dcode,dot)
 7
          );
Table created.
SQL>
SQL>
SQL> REM Solutions
SQL> REM b) Create the above-mentioned tables and populate the tables accordingly to retrieve the
values from the table.
SQL>
SQL> REM Inserting values into driver table:
SQL>
SQL> insert into driver values ('D001','Mani','20-MAR-1977','male');
1 row created.
SQL> insert into driver values ('D001','Roger','20-MAR-1972','male');
insert into driver values ('D001', 'Roger', '20-MAR-1972', 'male')
ERROR at line 1:
ORA-00001: unique constraint (1057.DRIVER_PK) violated
SQL> insert into driver values ('0324', 'Roger', '20-MAR-1972', 'male');
insert into driver values ('0324', 'Roger', '20-MAR-1972', 'male')
ERROR at line 1:
ORA-02290: check constraint (1057.D FORMAT) violated
SQL> insert into driver values ('D005','Naren','17-MAY-1975','male');
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```
1 row created.
SQL>
SQL> select * from driver;
DCODE DNAME
                        DOB
                                 GENDER
D001 Mani 20-MAK-// 17-MAY-75 male
SQL>
SQL> REM Inserting values into city table:
SQL> insert into city values ('C001','Chennai');
1 row created.
SQL> insert into city values ('C001','Cochin');
insert into city values ('C001','Cochin')
ERROR at line 1:
ORA-00001: unique constraint (1057.CITY_PK) violated
SQL> insert into city values ('C005','Mumbai');
1 row created.
SQL> insert into city values ('C006', 'Kolkata');
1 row created.
SQL> insert into city values ('C007','Delhi');
1 row created.
SQL> insert into city values ('C008', 'Madurai');
1 row created.
SQL>
SQL> select * from city;
CCODE CNAME
```

```
C001 Chennai
C005 Mumbai
C006 Kolkata
C007 Delhi
C008 Madurai
SQL>
SQL> REM Inserting values into truck table:
SQL>
SQL> insert into truck values ('T001','L');
1 row created.
SQL> insert into truck values ('T001','H');
insert into truck values ('T001','H')
ERROR at line 1:
ORA-00001: unique constraint (1057.TRUCK_PK) violated
SQL> insert into truck values ('T002','M');
insert into truck values ('T002','M')
ERROR at line 1:
ORA-02290: check constraint (1057.TYPE_CHK) violated
SQL> insert into truck values ('T005','H');
1 row created.
SQL>
SQL> select * from truck;
TRUCK T
T001 L
T005 H
SQL>
SQL> REM Inserting values into drive_truck table:
SQL> insert into drive_truck values ('T001','D001','19-JUN-2020','C001');
1 row created.
```

```
SQL> insert into drive_truck values ('T002','D001','19-JUN-2020','C001');
insert into drive_truck values ('T002','D001','19-JUN-2020','C001')
ERROR at line 1:
ORA-02291: integrity constraint (1057.TRUCK FK1) violated - parent key not
found
SQL> insert into drive_truck values ('T001','D002','19-JUN-2020','C001');
insert into drive truck values ('T001','D002','19-JUN-2020','C001')
ERROR at line 1:
ORA-02291: integrity constraint (1057.DRIVER FK1) violated - parent key not
found
SOL> insert into drive truck values ('T005','D001','19-JUN-2020','C002');
insert into drive truck values ('T005','D001','19-JUN-2020','C002')
ERROR at line 1:
ORA-02291: integrity constraint (1057.CITY_FK1) violated - parent key not found
SQL> insert into drive_truck values ('T001','D001','19-JUN-2020','C002');
insert into drive truck values ('T001','D001','19-JUN-2020','C002')
ERROR at line 1:
ORA-00001: unique constraint (1057.DRIVE_PK) violated
SQL> insert into drive_truck values ('T005','D005','19-JUN-2020','C005');
1 row created.
SQL> insert into drive truck values ("T001', 'D001', '20-JUN-2020', 'C005');
1 row created.
SQL> insert into drive_truck values ('T001','D001','22-JUN-2020','C006');
1 row created.
SQL> insert into drive truck values ("T001', 'D001', '30-JUN-2020', 'C007');
1 row created.
```

```
SQL>
SQL> select * from drive_truck;
TRUCK DCODE DOT
                         CCODE
T001 D001 19-JUN-20 C001
T005 D005 19-JUN-20 C005
T001 D001 20-JUN-20 C005
T001 D001 22-JUN-20 C006
T001 D001 30-JUN-20 C007
SQL>
SQL>
SQL> REM c) Include the constraint as mentioned, the gender of driver is always 'male'.
SQL>
SQL> alter table driver add constraint gend_chk check(gender like 'male');
Table altered.
SQL>
SQL> insert into driver values ('D010', 'Tara', '14-APR-1980', 'female');
insert into driver values ('D010', 'Tara', '14-APR-1980', 'female')
ERROR at line 1:
ORA-02290: check constraint (1057.GEND CHK) violated
SQL>
SQL>
SQL> REM d) Display the details of the youngest driver.
SQL> select * from driver where dob = (
 2
         select min(dob) from driver
 3
DCODE DNAME
                      DOB
                               GENDER
D005 Naren 17-MAY-75 male
SQL>
SQL>
SQL> REM e) Develop a SQL query to list the details of each driver and the number of trips travelled.
SQL>
SQL> select d.dcode, dname, dob, gender, count(ccode)
 2 from driver d join drive_truck t on (d.dcode = t.dcode)
 3 group by d.dcode, dname, dob, gender;
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DCODE DNAME DOB GENDER COUNT(CCODE)

D001 Mani 20-MAR-77 male 4 D005 Naren 17-MAY-75 male 1

SQL>

SQL>

SQL> REM f) Develop a SQL query to list the details of drivers who have travelled more than three times in the same city.

SQL>

SQL> select d.dcode, dname, dob, gender

- 2 from driver d join drive_truck t on (d.dcode = t.dcode)
- 3 group by d.dcode, dname, dob, gender having count(ccode)>3;

DCODE DNAME DOB GENDER

D001 Mani 20-MAR-77 male

SQL>

SQL>

SQL> REM ***End of file***

SQL> spool off;