People's Democratic Republic of Algeria Ministry of Higher Education and Scientific Research National Higher School of Artificial Intelligence

DATABASE LAB WEEK1-2 REPORT

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Week 1-LAB 2: Tables and Constraints Creation

Part I: Creating TableSpaces and Users

1/ create table spaces

```
CREATE TABLESPACE INTERVENTION1_TBS
       DATAFILE 'INTERVENTION1 TBS data.dbf'
       SIZE 1m;
         CREATE TABLESPACE INTERVENTION1 TempTBS
       DATAFILE 'INTERVENTION1_TempTBS_data.dbf'
       SIZE 1m;
SQL> CREATE TABLESPACE INTERVENTION1_TBS
     DATAFILE 'INTERVENTION1_TBS_data.dbf'
 3
     SIZE 1m;
TABLESPACE created.
SQL> CREATE TABLESPACE INTERVENTION1_TempTBS
     DATAFILE 'INTERVENTION1_TempTBS_data.dbf'
 3
     SIZE 1m;
TABLESPACE created.
SQL> CREATE USER DBAINTERVENTION IDENTIFIED BY MyPassword;
```

2-3/creating user

SQL> CREATE USER DBAINTERVENTION IDENTIFIED BY MyPassword; USER created.

SQL> GRANT ALL PRIVILEGES TO DBAINTERVENTION;

Grant succeeded.

```
SQL> GRANT CONNECT TO DBAINTERVENTION;

Grant succeeded.

SQL> GRANT UNLIMITED TABLESPACE TO DBAINTERVENTION;

Grant succeeded.
```

4/creation of tables

```
SQL> CREATE TABLE CUSTOMER1(
         CUSTOMERNUMBER NUMBER(10) not null,
 2
 3
                 VARCHAR2(10) NOT NULL,
 4
         FIRSTNAME VARCHAR2(50) NOT NULL,
 5
         LASTNAME VARCHAR2(50) NOT NULL,
 6
         BIRTHDATE date,
  7
         ADDRESS VARCHAR2(80) NOT NULL,
 8
         TELPROF NUMBER(10),
 9
         TELPRIV NUMBER(10),
           FAX NUMBER(15)
 10
 11 );
TABLE created.
SQL> CREATE TABLE Employee1(
       EMPLOYEENUMBER NUMBER(10) not null,
      LASTNAMEEMP VARCHAR2(50) NOT NULL,
 3
       FIRSTNAMEEMP VARCHAR2(50) NOT NULL,
 4
 5
      CATEGORY VARCHAR2(50) NOT NULL,
 6
       SALARY NUMBER(15)
 7);
TABLE created.
                                 SQL> create table MODEL1 (
SQL> create table brand1(
                                     MODELNUMBER number(5) not null,
2 BRANDNUMBER number(10) not null,
                                  3 MODEL varchar(30) not null,
3 BRAND VARCHAR2(50) NOT NULL,
                                    BRANDNUMBER number(5) not null
                                  4
4 COUNTRY VARCHAR2(50) NOT NULL
                                  5
                                  6
                                    );
6);
                                 Table created.
Table created.
SQL> create table VEHICLE1 (
    VEHICLENUMBER number(3)not null,
    CUSTOMERNUMBER number(3)not null,
 3
     MODELNUMBER number(3)not null,
     REGISTRATIONNUMBER number(20)not null,
 5
     YEARR number(4)not null
 6
Table created.
```

```
SQL> create table INTERVENTION1(
    INTERVENTIONNUMBER number(10) not null,
 3 VEHICLENUMBER number(10) not null,
 4 INTERVENTIONTYPE VARCHAR2(50) NOT NULL,
 5 INTERVSTARTDATE date,
 6 INTERVENDDATE date ,
   INTERVCOST number(15)
 8);
Table created.
SQL> create table PARTICIPANTS1 (
2
     INTERVENTIONNUMBER number(2),
 3
     EMPLOYEENUMBER number(2),
4
     STARTDATE date,
 5
      ENDDATE date
 6
      );
```

Table created.

5/ the constraints

SQL> alter table customer1 add constraint pk_customer1 PRIMARY KEY (CUSTOMERNUMBER);

Table altered.

SQL> ALTER TABLE Employee1

2 ADD CONSTRAINT PK_Employee1 PRIMARY KEY (EMPLOYEENUMBER);

TABLE altered.

SQL> ALTER TABLE brand1

2 ADD CONSTRAINT PK_BRANDNUMBER1 PRIMARY KEY (BRANDNUMBER);

TABLE altered.

SQL> ALTER TABLE MODEL1

2 ADD CONSTRAINT PK_MODEL1 PRIMARY KEY (MODELNUMBER);

TABLE altered.

SQL> ALTER TABLE MODEL1

2 ADD FOREIGN KEY (BRANDNUMBER) REFERENCES BRAND1(BRANDNUMBER) on delete cascade;

TABLE altered.

SOL> ALTER TABLE VEHICLE1

2 ADD CONSTRAINT PK_VEHICLE1 PRIMARY KEY (VEHICLENUMBER);

TABLE altered

SQL> ALTER TABLE vehicle1

- 2 ADD CONSTRAINT FK_CUSTOMERNUMBER1
- 3 FOREIGN KEY (CUSTOMERNUMBER) REFERENCES customer1(CUSTOMERNUMBER)on delete cascade;

TABLE altered.

SQL> ALTER TABLE vehicle1

2 ADD CONSTRAINT FK_MODELNUMBER1 FOREIGN KEY (MODELNUMBER) REFERENCES MODEL1(MODELNUMBER) on delete cascade;

TABLE altered.

--

SQL> ALTER TABLE INTERVENTION1

2 ADD CONSTRAINT PK_INTERVENTION1 PRIMARY KEY (INTERVENTIONNUMBER);

TABLE altered.

OL> ALTER TABLE INTERVENTION 1

2 ADD CONSTRAINT fk_vehiclenumber FOREIGN KEY (VEHICLENUMBER) REFERENCES vehicle1(VEHICLENUMBER) on delete cascade;

TABLE altered.

SQL> ALTER TABLE PARTICIPANTS1

2 ADD CONSTRAINT PK_PARTICIPANTS PRIMARY KEY (INTERVENTIONNUMBER,EMPLOYEENUMBER);

TABLE altered.

SQL> ALTER TABLE PARTICIPANTS1

2 ADD constraint fk_employee_number FOREIGN KEY (EMPLOYEENUMBER) REFERENCES EMPLOYEE1(EMPLOYEENUMBER) on delete cascade;

TABLE altered.

SQL> ALTER TABLE PARTICIPANTS1

2 ADD constraint fk_intervention_number FOREIGN KEY (INTERVENTIONNUMBER) REFERENCES INTERVENTION1(INTERVENTIONNUMBER)on delete cascade;

TABLE altered.

6/ the problems I faced:

- -creating the user and giving him the access to the tablespaces.
- -getting to use new datatypes.
- -error ORA-12154

7/how I solved it:

- -searching for the solution of the errors especially ORA-12154
- -reading articles and documents and cheat sheets (the ones on the classroom)

8/ adding attribute:

SQL> alter table Employee1 add dateinstalation date;

Table altered.

9/not null to category and salary

SQL> alter table Employee1 modify CATEGORY VARCHAR2(50) not null;

Table altered.

SQL> DESC Employee1			
Name	Null?	Туре	
EMPLOYEENUMBER	NOT NULL	NUMBER(10)	
LASTNAMEEMP	NOT NULL	VARCHAR2(50)	
FIRSTNAMEEMP	NOT NULL	VARCHAR2(40)	
CATEGORY	NOT NULL	VARCHAR2(50)	
SALARY	NOT NULL	NUMBER(15)	
DATEINSTALATION		DATE	

10/resize

SQL> alter table Employee1 modify FIRSTNAMEEMP VARCHAR2(40);

Table altered.

11/drop column

SQL> alter table Employee1 drop column dateinstalation;

Table altered.

SQL> DESC Employee1

Name	Null?	Туре
EMPLOYEENUMBER	NOT NULL	NUMBER(10)
LASTNAMEEMP	NOT NULL	VARCHAR2(50)
FIRSTNAMEEMP	NOT NULL	VARCHAR2(40)
CATEGORY	NOT NULL	VARCHAR2(50)
SALARY	NOT NULL	NUMBER(15)

12/rename the column

SQL> alter table CUSTOMER1 RENAME column ADDRESS to CUSTOMERADDRESS;

Table altered.

SQL> --Q12

SQL> DESC CUSTOMER1;

Name Null? Type
CUSTOMERNUMBER NOT NULL NUMBER(10)
CIV NOT NULL VARCHAR2(10)

Firstname Not Null Varchar2(50) Lastname Not Null Varchar2(50)

BIRTHDATE DATE

CUSTOMERADDRESS NOT NULL VARCHAR2(80)
TELPROF NUMBER(10)
TELPRIV NUMBER(10)
FAX NUMBER(15)

13/ add constraint to check on date

SQL> --Q13

SQL> alter table CUSTOMER1 add CONSTRAINT checkCIV check(CIV IN ('Mr', 'Miss', 'Mrs'));

Table altered.

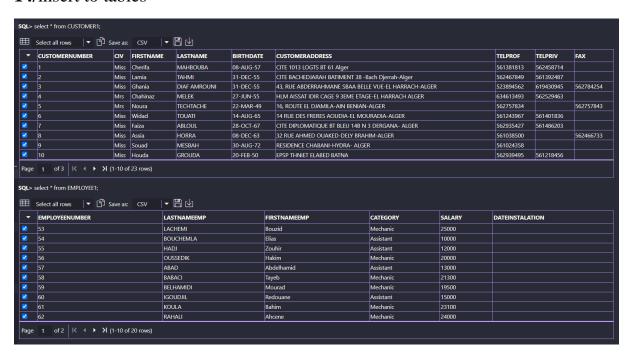
SQL> alter table Employee1 add constraint checkCATEGORY check(CATEGORY in ('Mechanic', 'Assistant'));

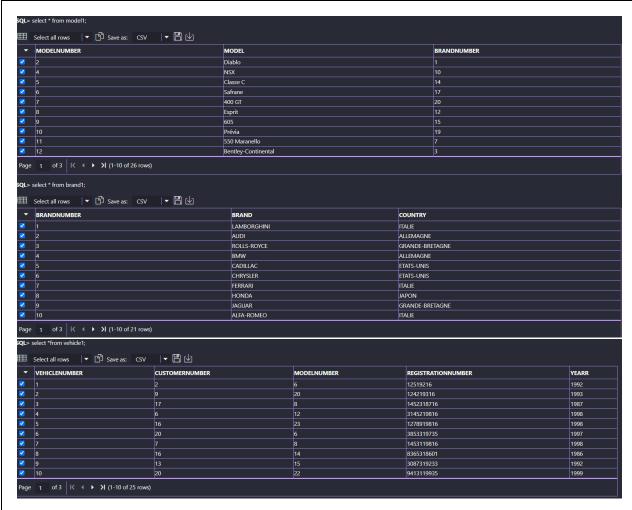
Table altered.

SQL> alter table INTERVENTION1 add CONSTRAINT checkdateoo check(INTERVSTARTDATE < INTERVENDDATE);

Table altered.

14/insert to tables





Some of the intervention1

SQL> INSERT INTO INTERVENTION1 VALUES (1, 3, 'Réparation', TO_DATE('2006-02-25 09:00:00', 'YYYY-MM-DD HH24:MI:SS'), TO_DATE('2006-02-26 12:00:00', 'YYYY-MM-DD HH24:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HH24:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HH24:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYYY-MM-DD HA2:MI:SS'), TO_DATE('2006-02-26 12:00', 'YYY-MM-DD HA2:MI:S

1 row created

Commit complete.

SQL> INSERT INTO INTERVENTION1 VALUES (2, 21, "Réparation", TO_DATE('2006-02-23 09:00:00', 'YYYY-MM-DD HH24:MisS'), TO_DATE('2006-02-24 18:00:00', 'YYYY-MM-DD HH24:MisS'), 100:00);

1 row created.

Commit complete.

SQL> INSERT INTO INTERVENTION1 VALUES (3, 25, 'Réparation', TO_DATE('2006-04-06 14:00:00', 'YYYY-MM-DD HH24:MISSS'), TO_DATE('2006-04-09 12:00:00', 'YYYY-MM-DD HH24:MISSS'), 42000);

1 row created.

Commit complete

SQL> INSERT INTO INTERVENTION1 VALUES (4, 10, 'Entretien', TO_DATE('2006-05-14 09:00:00', 'YYYY-MM-DD HH24:MI:SS'), TO_DATE('2006-05-14 18:00:00', 'YYYY-MM-DD HH24:MI:SS'), 100:00);

- 1 row created.

Commit complete.

SQL> INSERT INTO INTERVENTION1 VALUES (5, 6, "Réparation", TO_DATE('2006-02-22 09:00:00", "YYYY-MM-DD HH24:M:SS"), TO_DATE('2006-02-25 18:00:00", "YYYY-MM-DD HH24:M:SS"), TO_DATE('2006-02-25 18:00:00", "YYYY-MM-DD HH24:M:SS"), 40000);

1 row created.

Commit complete.

SQL> INSERT INTO INTERVENTION1 VALUES (6, 14, 'Entretien', TO_DATE(2006-03-03 14:00:00', 'YYYY-MM-DD HH24:M:SS'), TO_DATE('2006-03-04 18:00:00', 'YYYY-MM-DD HH24:M:SS'), 75:00);

1 row created.

Commit complete.

SQL> INSERT INTO INTERVENTION1 VALUES (7, 1, 'Entretien', TO_DATE('2006-04-09 09:00:00', 'YYYY-MM-DD HH24:Mi:SS'), TO_DATE('2006-04-09 18:00:00', 'YYYY-MM-DD HH24:Mi:SS'), 8000);

1 row created.

Commit complete.

SQL> INSERT INTO INTERVENTION1 VALUES (8, 17, 'Entretien', TO_DATE(2006-05-11 14:00:00', 'YYYY-MM-DD HH24:M:SS'), TO_DATE(2006-05-12 18:00:00', 'YYYY-MM-DD HH24:M:SS'), 9000);

1 row created.

articipantst(interventionnumber,employeenumber,startdate,enddate) values(1,54,70_date(2006-02-26 09:00:00','Yyyy-mm-dd hh24:mi:ss'),To_date(2006-02-26 12:00:00','Yyyy-mm-dd hh24:mi:ss') row created. Commit complete. SQL> INSERT INTO PARTICIPANTS ((INTERVENTIONNUMBER.EMPLOYEENUMBER.STARTIDATE,ENDDATE, VALUES(1,59,TO_DATE(2006-02-25 09:00:00)", "YYYY-MM-DD HH24:MISS"), TO_DATE(2006-02-25 18:00:00)", "YYY-MM-DD HH24:MISS"), TO_DATE(2006-02-25 18:00:00)", "YY-MM-DD HH24:MISS"), TO_DATE(2006-02-25 18:00:00)", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS"), "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", "YY-MM-DD HH24:MISS", 1 row created. Commit complete. SQL> Insert into participants1(interventionnumber,employeenumber,startdate,enddate) values(2,57,To_date(2006-02-24 14:00:00), "YYY-MM-DD HH24:Miss"), To_date(2006-02-24 18:00:00), "YYY-MM-DD HH24:Miss"), sql» insert into participants1(interventionnumber,employeenumber,startdate,enddate) values(2,59,to_date(2006-02-23 09:00:00','yyy-mm-dd hH24:miss'),to_date(2006-02-24 12:00:00','yyy-mm-dd Commit complete. SQL> Insert into participants1(interventionnumber,employeenumber,startdate,enddate) values(3,60,to date(2006-04-09 09:00:00°, "Yyyy-mm-dd hh24:mi:ss"),to date(2006-04-09 12:00:00°, "Yyy-mm-dd hh24:mi:ss"),to date(2006-04-09 12:00°, "Yyy-mm-dd hh24:mi:ss"),to date 1 row created. Commit complete SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(3,65,TO_DATE(2006-04-06 14:00:00°, "YYYY-MM-DD HH24:M:SS"),TO_DATE(2006-04-08 18:00:00°, "YYYY-MM-DD HH24:M:SS") 1 row created. Commit complete. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(4,62,TO_DATE(*2006-05-14 09:00:00', "YYYY-MM-DD HH24:M:SS"),TO_DATE(*2006-05-14 12:00:00', "YYY-MM-DD HH24:M:SS"),TO_DATE(*2006-05-14 12:00', "YYY-MM-DD HA14:M:SS"),TO_DATE(*2006-05-14 12:00', "YYY-MM-DD HA14:M:SS"),TO_DATE(*2006-05-14 12:00', "YY-M-DD HA14:M:SS"),TO_DATE(*2006-05-14 12:00', "YYrow created. ommit complete SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(4,66,TO_DATE(2006-02-14 14:00:00),"YYY-MM-DD HH24:MISS)),TO_DATE(2006-05-14 18:00:00),"YYY-MM-DD HH24:MISS),TO_DATE(2006-05-14 18:00:00),"YYY-MM-DD HH24:MISS)),TO_DATE(2006-05-14 18:00:00),"YYY-MM-DD HH24:MISS),TO_DATE(2006-05-14 18:00:00),"YYY-MM-DD HH24:MISS),"YYY-MM-DD HH24:MISS),TO_DATE(2006-05-14 18:00:00),"YYY-MM-DD HA2:MISS),"YYY-MM-DD HA2:MISS),"YY-MM-DD HA2:MISS),"YY-MM-DD HA2:MISS),"YY-MM-DD HA2:MISS),"YY-MM-DD HA2:MISS),"YY-MM-DD HA2:MISS),"YY-MM-DD HA2:MISS),"YY-MM-DD SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(5.56,TO_DATE(2006-02-22 0900:00", YYYY-MM-DD HH24MISS)),TO_DATE(2006-02-25 12:00:00", YYYY-MM-DD HH24MISS),TO_DATE(2006-02-25 12:00:00", YYYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00:00", YYYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00:00", YYYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00:00", YYYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00:00", YYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00", YYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00", YYY-MM-DD HA24MISS),TO_DATE(2006-02-25 12:00", YYY-MM-DD HA24MISS),TO_DATE(2 1 row created. Commit complete. SQL> INSERT INTO PARTICIPANTS ((INTERVENTIONNUMBER,EMPLOYEENUMBER, STARTDATE, ENDDATE) VALUES (5,60,TO_DATE (2006-02-23 09:00:00', YYYY-MM-DD HH24:MISS'),TO_DATE (2006-02-25 18:00:00', YYY-MM-DD H12:MISS'),TO_DATE (2006-02-25 18:00', YYY-MM-DD H12:MISS'),TO_DATE (2006-02-25 18:0 1 row created. Commit complete. row created. SQL> INSERT INTO PARTICIPANTS1 (INTERVENTIONNUMBER, EMPLOYEEN UMBER, STARTDATE, ENDDATE) VALUES (6,57,TO_DATE(2006-03-04 14:00:00)", YYYY-MM-DD HH24:MISS), TO_DATE(2006-03-04 18:00:00)", YYYY-MM-DD HH24:MISS) (7,50)", TO 1 row created. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER.EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(7,55,TO_DATE(2006-04-09 14:00:00), "YYYY-MM-DD HH24:MISS"), TO_DATE(2006-04-09 18:00:00), "YYY-MM-DD HH24:MISS"), TO_DATE(2006-04-09 18:00:00), "YYY-MM-DD HH24:MISS"), TO_DATE(2006-04-09 18:00:00), "YYY-MM-DD HH24:MISS"), TO_DATE(2006-04-09 18:00:00), "YYY-MM-DD HA24:MISS"), TO_DATE(2006-04-09 18:00:00), "YYY-MM-DD HA24:MISS"), TO_DATE(2006-04-09 18:00:00), "YYY-MM-DD HA24:MISS"), "YYY-MM-DD HA24:MISS"), "YYY-MM-DD HA24:MISS"), "YYY-MM-DD HA24:MISS"), "YYY-MM-DD HA2 1 row created SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(7,65,TO_DATE(2006-04-09 09:00:00',"YYY-MM-DD HH24:MI:S5),TO_DATE(2006-04-09 12:00:00',"YYY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00:00',"YYY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00:00',"YYY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00:00',"YYY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00:00',"YYY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00',"YYY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00',"YY-MM-DD H124:MI:S5),TO_DATE(2006-04-09 12:00',"YY-MI-DATE(2006-04-09 12:00',"YY-MI-DAT 1 row created. Commit complete. SQL> INSERT INTO PARTICIPANTS ((INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE), VALUES(8,54,To_date(2006-05-12 09:00:000°, "YYYY-MM-DD HH24:M:SS")), To_date(2006-05-12 18:00:00°, "YYYY-MM-DD HH24:M:SS")). SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(8,62,TO_DATE(2006-05-11 14:00:00),"YYYY-MM-DD HH24:MISS"),TO_DATE(2006-05-12 12:00:00),"YYYY-MM-DD HH24:MISS"),TO_DATE(2006-05-12 12:00:00),"YYY-MM-DD HH24:MISS"),TO_DATE(2006-05-12 12:00),"YYY-MM-DD HH24:MISS"),TO_DATE(2006-05-12 12:00),"YYY-MM-DD HA2(2006-05-12 12:00),"YY 1 row created. Commit complete. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(9,5,9,TO_DATE(2006-02-22 09:00:00",YYYY-MM-DD HH24:MISS"),TO_DATE(2006-02-22 12:00:00",YYYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00",YYY-MM-DD HA2:MISS"),TO_DATE(2006-02-22 12:00",TO_DATE(2006-02-22 12:00",TO_DATE(2006-02-22 12:00"),TO_DATE(2006-02-2 Commit complete. SQL> INSERT INTO PARTICIPANTS I/INTERVENTION NUMBER EMPLOYEEN UMBER STARTDATE ENDDATE) VALUES (9,60.TO DATE(2006-02-22 14:00:00', "YYY'-MM-DD HH24:MISS"). TO DATE(2006-02-22 18:00:00', "YYY'-MM-DD HH24:MISS"). 1 row created. Commit complete. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER, EMPLOYEENUMBER, STARTDATE, ENDDATE) VALUES(10,63,TO_DATE(2006-04-09 14:00:00', 'YYY'-MM-DD HH24:MISS'),TO_DATE(2006-04-09 18:00:00', 'YYY'-MM-DD HH24:MISS'); Commit complete SQL - INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(10,67,TO_DATE(2006-04-08 09:00:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-09 12:00:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-09 12:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-09 12:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-04-09 12:00:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-04-09 12:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-04-04-09 12:00; YYYY-MM-DD HH24:MISS3,TO_DATE(2006-04-04-09 12:00; YYYY-MM-DD HH24:MISS3,TO_DATE(20 1 row created. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER.EMPLOYEENUMBER.STARTDATE,ENDDATE) VALUES(11,59,TO_DATE(2006-03-09 09:00:00', YYYY-MM-DD HH24:MISS'),TO_DATE(2006-03-11 18:00:00', YYYY-MM-DD HH24:MISS')); Commit complete. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(11,64,TO_DATE(2006-03-09 09:00:00', 'YYYY-MM-DD HH24:MISS'),TO_DATE(2006-03-17 12:00:00', 'YYYY-MM-DD HH24:MISS'). 1 row created. commit complete. SQL> INSERT INTO PARTICIPANTS1(INTERVENTIONNUMBER,EMPLOYEENUMBER,STARTDATE,ENDDATE) VALUES(11,53,TO_DATE(2006-03-08.14:00:00', YYYY-MM-DD HH24:Miss'),TO_DATE(2006-03-16.18:00:00', YYYY-MM-DD HH24:Miss'); Commit complete

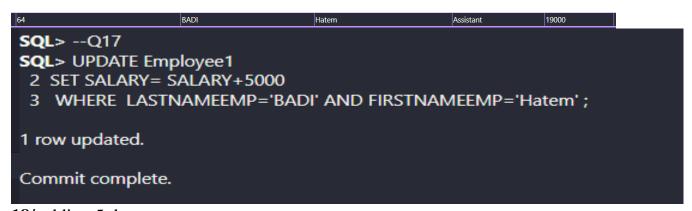
15- problems:

- -the constraint of civ, where the table doesn't contain names Mrs, Mr and so on so the constraint stopped this data.
- -the constraint refuse Mécanicien (it has to be mechanic)
- -lardjoun karim is not either a assistant or mechanic and we can't leave it as null
- -we can't insert polo since the brand which it's number is 45 does not exist
- -Couldn't insret (19, 3904318515, 77, 18, and 1985) to vehicle's table because model number 77 doesn't exist.
- -couldn't insert (24, 1789519816, 9, 80, 1998) to vehicle's table because model number 88 doesn't exist.
- -vehicle number 77 does not exist

16-solutions:

- -changed the tables from Mme, M. to Mrs. and Mr. according to the constraint.
- -changed the values from Mécanicien to mechanic
- -I made lardjoun karim a mechanic and inserted it
- -didn't insert polo
- -didn't insert the values where the model number is 77 and 88

17/adding 5000 to employee 'badi'



18/ adding 5 days

```
SQL> UPDATE INTERVENTIONS SET INTERVSTARTDATE=INTERVSTARTDATE+5 WHERE extract (month from INTERVSTARTDATE)=2;
4 rows updated.
```

19/ deletion of model 'Serie 5'

```
SQL> DELETE FROM MODEL1 WHERE MODEL='Série 5';

1 row deleted.

Commit complete.
```

20/ any problems:

- In question number 18 the constraint violated so we had to disable it and reactive it after finishing.
- In number 19 we had to add on cascade.