

# UNIVERSIDAD DE GUADALAJARA

CENTRO UNIVERSITARIO DE CIENCIAS EXACTAS E INGENIERÍA

DEPARTAMENTO DE CIENCIAS COMPUTACIONALES

Administración de Bases de Datos

## Creación de Usuarios y Tablas



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**Sección:** D01

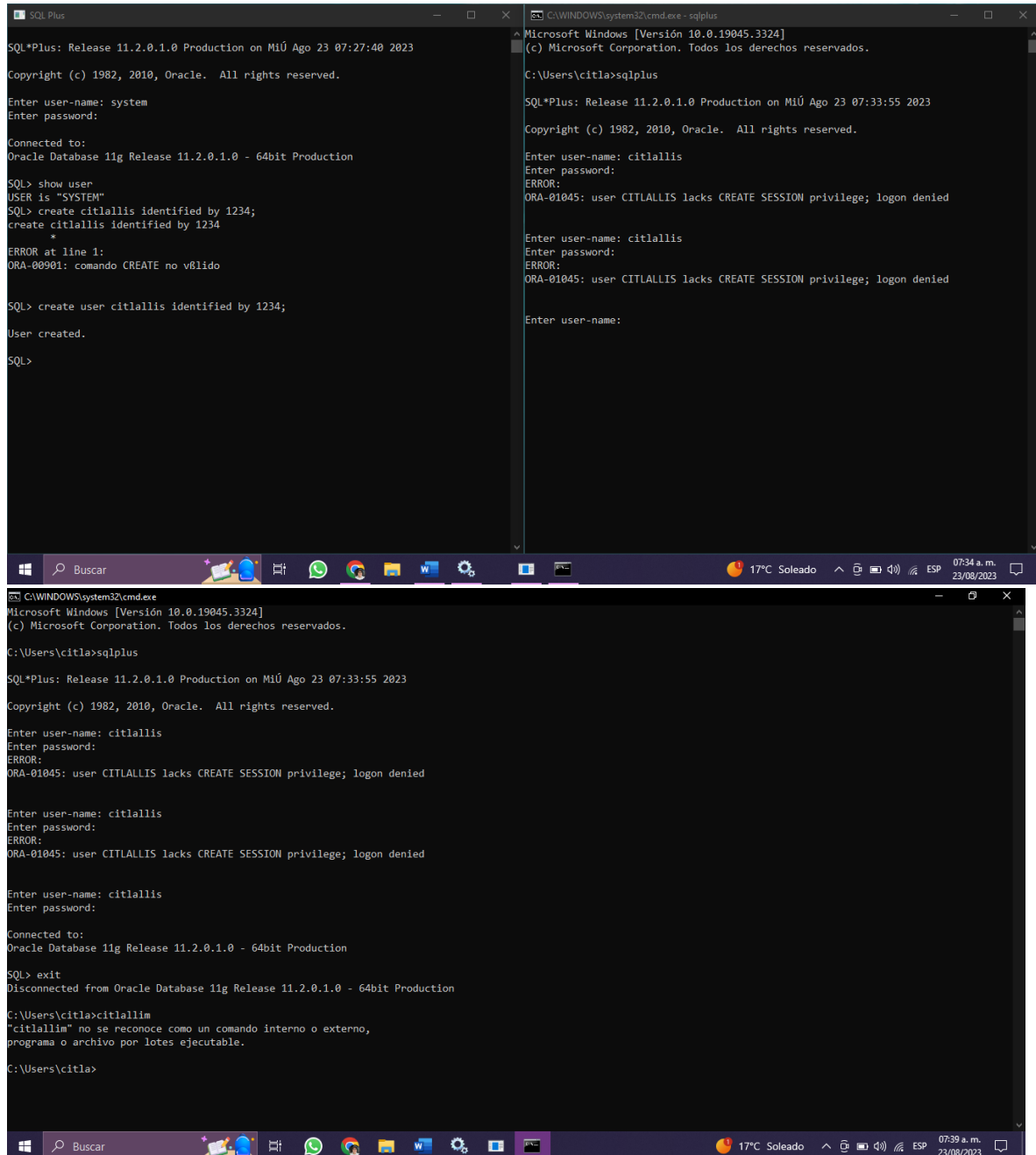
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**Carrera:** Ingeniería Informática

**Fecha:** 24/08/2023

## 1ro. Crear las tablas con el usuario mortal - error de conexión

Antes de la creación de las tablas no tenemos usuarios así crearemos dos usuarios, uno “mortal” que será citlallim y otro super usuario que tendrá mas privilegios que será citlallis



```
SQL*Plus: Release 11.2.0.1.0 Production on MiÚ Ago 23 07:27:40 2023
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: system
Enter password:
Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production
SQL> show user
USER is "SYSTEM"
SQL> create citlallis identified by 1234;
create citlallis identified by 1234
*
ERROR at line 1:
ORA-00901: comando CREATE no válido
SQL> create user citlallis identified by 1234;
User created.
SQL>
```

```
C:\WINDOWS\system32\cmd.exe - sqlplus
Microsoft Windows [Versión 10.0.19045.3324]
(c) Microsoft Corporation. Todos los derechos reservados.
C:\Users\citla>sqlplus
SQL*Plus: Release 11.2.0.1.0 Production on MiÚ Ago 23 07:33:55 2023
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: citlallis
Enter password:
ERROR:
ORA-01045: user CITLALLIS lacks CREATE SESSION privilege; logon denied
Enter user-name: citlallis
Enter password:
ERROR:
ORA-01045: user CITLALLIS lacks CREATE SESSION privilege; logon denied
Enter user-name:
```

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Versión 10.0.19045.3324]
(c) Microsoft Corporation. Todos los derechos reservados.
C:\Users\citla>sqlplus
SQL*Plus: Release 11.2.0.1.0 Production on MiÚ Ago 23 07:33:55 2023
Copyright (c) 1982, 2010, Oracle. All rights reserved.
Enter user-name: citlallis
Enter password:
ERROR:
ORA-01045: user CITLALLIS lacks CREATE SESSION privilege; logon denied
Enter user-name: citlallis
Enter password:
ERROR:
ORA-01045: user CITLALLIS lacks CREATE SESSION privilege; logon denied
Enter user-name: citlallis
Enter password:
Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production
SQL> exit
Disconnected from Oracle Database 11g Release 11.2.0.1.0 - 64bit Production
C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.
C:\Users\citla>
```

## 2do. Otorgar permisos con el super usuario

Aquí se le da permiso para la creación de tablas

```
SQL Plus
ORA-00901: comando CREATE no v8lido

SQL> create user citlallis identified by 1234;
User created.

SQL> grant dba to citlallis;
Grant succeeded.

SQL> create user citlallim identified by 4321
2 default tablespace USERS temporary tablespace TEMP
3 ;
User created.

SQL> grant create session to javierm;
grant create session to javierm
*
ERROR at line 1:
ORA-01917: el usuario o rol 'JAVIERM' no existe

SQL> grant create session to citlallim;
Grant succeeded.

SQL> grgrant create table to citlallim;
SP2-0734: unknown command beginning "grgrant cr..." - rest of line ignored.
SQL> grant create table to citlallim;
Grant succeeded.

SQL> alter user citlallim quota unlimited on users;
User altered.

SQL>

C:\WINDOWS\system32\cmd.exe - sqlplus
Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

SQL> exit
Disconnected from Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Users\citla>sqlplus

SQL*Plus: Release 11.2.0.1.0 Production on Miú Ago 23 07:41:07 2023
Copyright (c) 1982, 2010, Oracle. All rights reserved.

Enter user-name: citlallim
Enter password:

Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

SQL> create table cualsea (nombre varchar2(10));
create table cualsea (nombre varchar2(10))
*
ERROR at line 1:
ORA-01031: privilegios insuficientes

SQL> create table cualsea (nombre varchar2(10));
Table created.

SQL>
```

## 3ro. Crear las tablas con el usuario mortal - error de permisos de creación de tablas

```
C:\WINDOWS\system32\cmd.exe - sqlplus

2 id int NOT NULL,
3 firstname varchar2(20),
4 lastname varchar2(20),
5 insurance varchar2(20),
6 PRIMARY KEY (id));
firstname varchar2(20),
*
ERROR at line 3:
ORA-00907: falta el paréntesis derecho

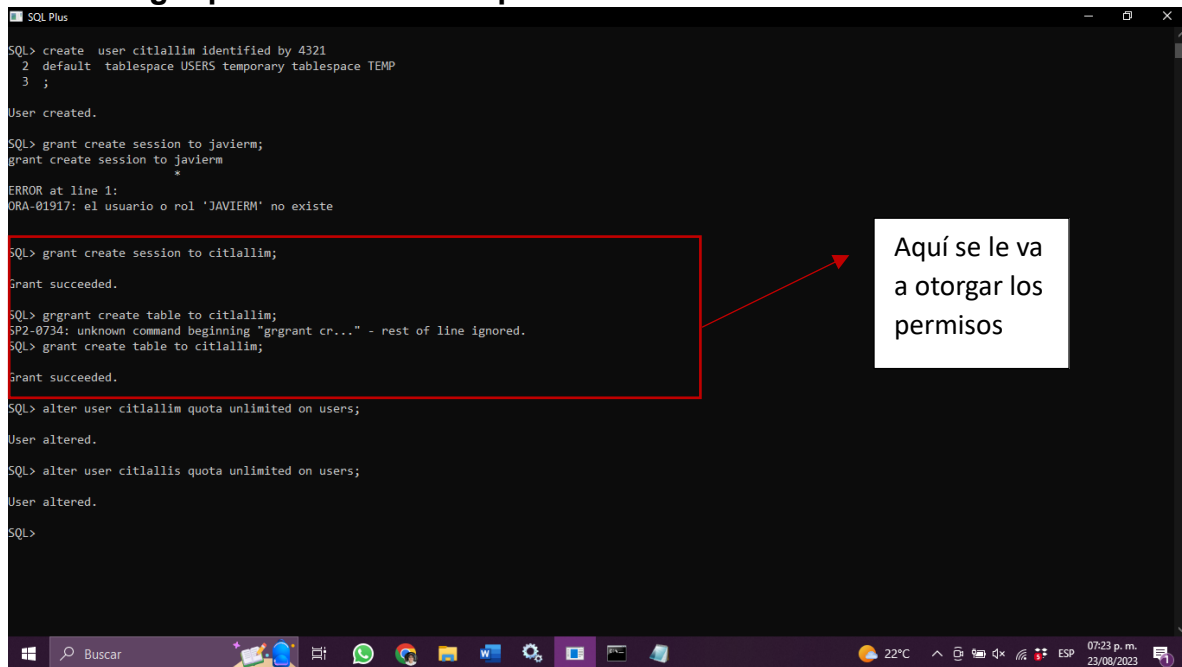
SQL> create table patient(
2 id int NOT NULL,
3 3 firstname varchar2(20),
4 4 lastname varchar2(20),
5 5 insurance varchar2(20),
6 id int NOT NULL,
7 );
2 id int NOT NULL,
*
ERROR at line 2:
ORA-00904: : identificador no v8lido

SQL> create table patient(
2 id int NOT NULL,
3 firstname varchar2(20),
4 lastname varchar2(20),
5 insurance int,
6 PRIMARY KEY (id));

Table created.

SQL>
SQL>
```

#### 4to. Otorgar permisos con el super usuario



The screenshot shows a SQL Plus terminal window with the following commands and output:

```
SQL> create user citlallim identified by 4321
2 default tablespace USERS temporary tablespace TEMP
3 ;
User created.

SQL> grant create session to javierm;
grant create session to javierm
*
ERROR at line 1:
ORA-01917: el usuario o rol 'JAVIERM' no existe

SQL> grant create session to citlallim;
Grant succeeded.

SQL> grgrant create table to citlallim;
SP2-0734: unknown command beginning "grgrant cr..." - rest of line ignored.
SQL> grant create table to citlallim;
Grant succeeded.

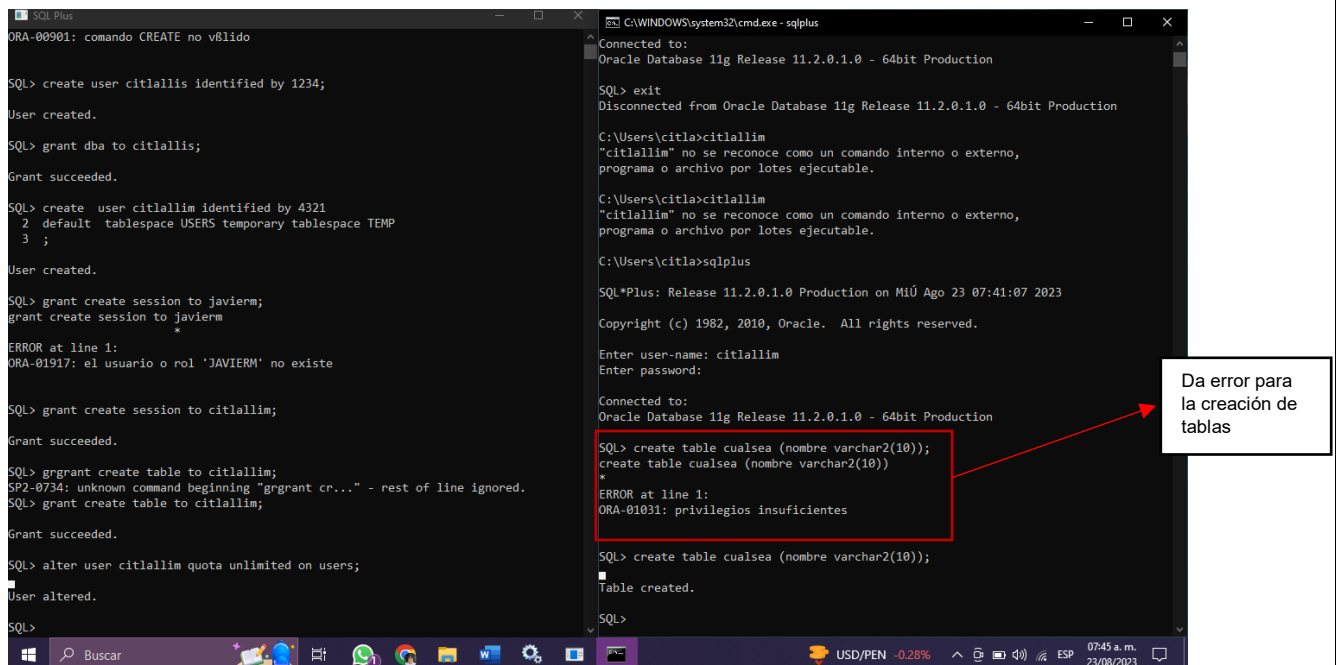
SQL> alter user citlallim quota unlimited on users;
User altered.

SQL> alter user citlallis quota unlimited on users;
User altered.

SQL>
```

A red box highlights the commands from `SQL> grant create session to citlallim;` to `SQL> alter user citlallis quota unlimited on users;`. A red arrow points from this box to a white text box on the right that says: "Aquí se le va a otorgar los permisos".

#### 5ro. Crear las tablas con el usuario mortal - error de espacio en disco - asignar cuota ilimitada en el tablespace de users - no hay permisos en USERS



The screenshot shows two SQL Plus terminal windows. The left window shows the creation of a user and granting of permissions:

```
ORA-00901: comando CREATE no válido

SQL> create user citlallis identified by 1234;
User created.

SQL> grant dba to citlallis;
Grant succeeded.

SQL> create user citlallim identified by 4321
2 default tablespace USERS temporary tablespace TEMP
3 ;
User created.

SQL> grant create session to javierm;
grant create session to javierm
*
ERROR at line 1:
ORA-01917: el usuario o rol 'JAVIERM' no existe

SQL> grant create session to citlallim;
Grant succeeded.

SQL> grgrant create table to citlallim;
SP2-0734: unknown command beginning "grgrant cr..." - rest of line ignored.
SQL> grant create table to citlallim;
Grant succeeded.

SQL> alter user citlallim quota unlimited on users;
User altered.

SQL>
```

The right window shows the attempt to create a table as the `citlallim` user:

```
C:\WINDOWS\system32\cmd.exe - sqlplus
Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

SQL> exit
Disconnected from Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Users\citla>sqlplus

SQL*Plus: Release 11.2.0.1.0 Production on Miú Ago 23 07:41:07 2023
Copyright (c) 1982, 2010, Oracle. All rights reserved.

Enter user-name: citlallim
Enter password:

Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

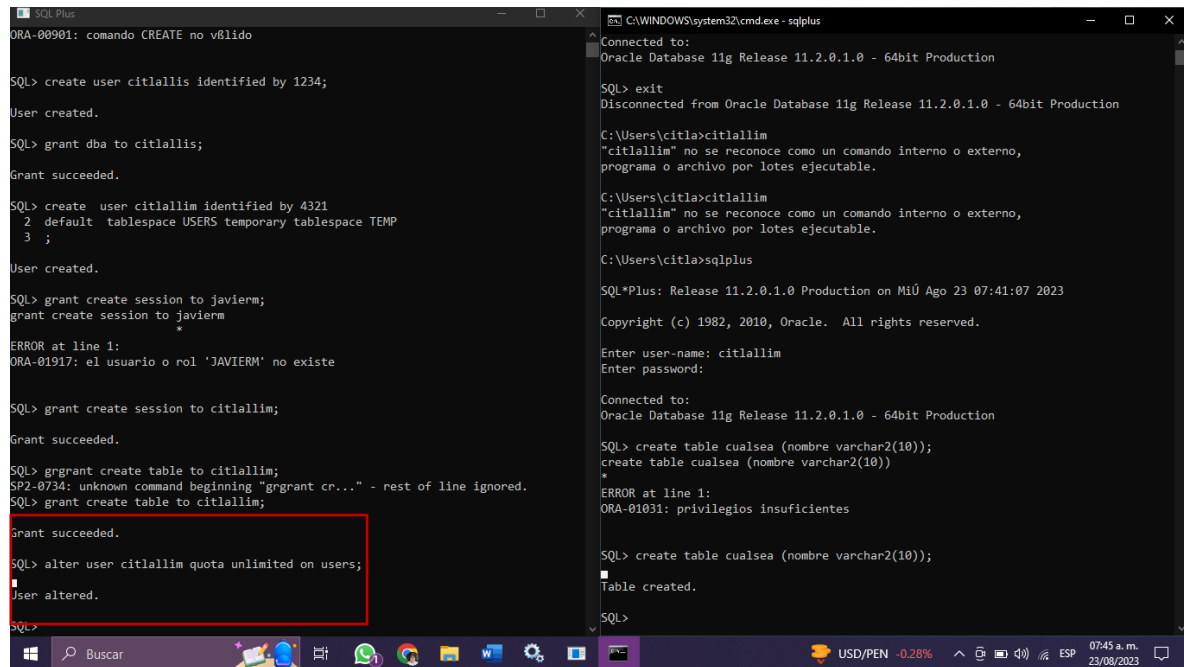
SQL> create table cualsea (nombre varchar2(10));
create table cualsea (nombre varchar2(10))
*
ERROR at line 1:
ORA-01031: privilegios insuficientes

SQL> create table cualsea (nombre varchar2(10));
Table created.

SQL>
```

A red box highlights the error message `ORA-01031: privilegios insuficientes`. A red arrow points from this box to a white text box on the right that says: "Da error para la creación de tablas".

## 6to. Otorgar cuota con el super usuario



The screenshot shows two side-by-side SQL Plus windows. The left window displays a series of commands and their outputs, with the final command highlighted by a red box. The right window shows the user's login process and the execution of a table creation command, which fails due to insufficient privileges.

```
ORA-00901: comando CREATE no vlido

SQL> create user citlallis identified by 1234;
User created.

SQL> grant dba to citlallis;
Grant succeeded.

SQL> create user citlallim identified by 4321
2 default tablespace USERS temporary tablespace TEMP
3 ;
User created.

SQL> grant create session to javierm;
grant create session to javierm
*
ERROR at line 1:
ORA-01917: el usuario o rol 'JAVIERM' no existe

SQL> grant create session to citlallim;
Grant succeeded.

SQL> grgrant create table to citlallim;
SP2-0734: unknown command beginning "grgrant cr..." - rest of line ignored.
SQL> grant create table to citlallim;
Grant succeeded.

SQL> alter user citlallim quota unlimited on users;
User altered.

SQL>
```

```
Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

SQL> exit
Disconnected from Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Users\citla>citlallim
"citlallim" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Users\citla>sqlplus

SQL*Plus: Release 11.2.0.1.0 Production on Mi Ago 23 07:41:07 2023

Copyright (c) 1982, 2010, Oracle. All rights reserved.

Enter user-name: citlallim
Enter password:

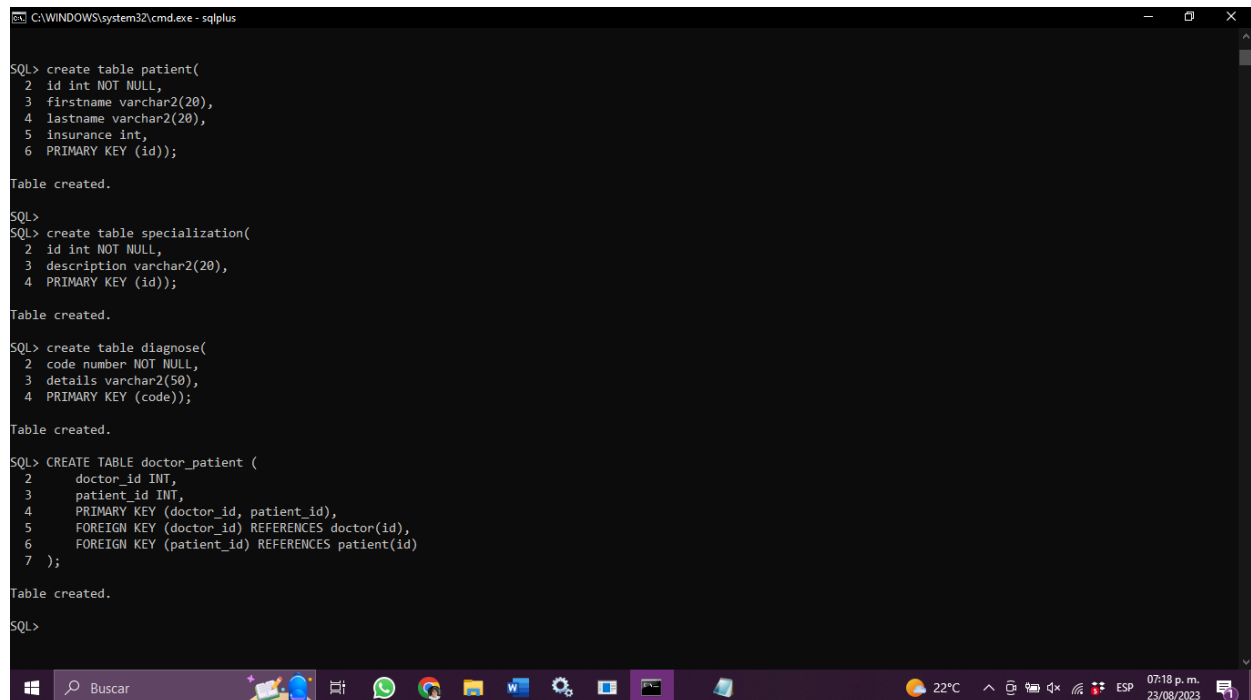
Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

SQL> create table cualsea (nombre varchar2(10));
create table cualsea (nombre varchar2(10))
*
ERROR at line 1:
ORA-01031: privilegios insuficientes

SQL> create table cualsea (nombre varchar2(10));
Table created.

SQL>
```

## 7mo. Ahora s crear las tablas con llaves primarias y forneas.



The screenshot shows a single SQL Plus window with the following commands and outputs:

```
SQL> create table patient(
2 id int NOT NULL,
3 firstname varchar2(20),
4 lastname varchar2(20),
5 insurance int,
6 PRIMARY KEY (id));
Table created.

SQL>
SQL> create table specialization(
2 id int NOT NULL,
3 description varchar2(20),
4 PRIMARY KEY (id));
Table created.

SQL> create table diagnose(
2 code number NOT NULL,
3 details varchar2(50),
4 PRIMARY KEY (code));
Table created.

SQL> CREATE TABLE doctor_patient (
2 doctor_id INT,
3 patient_id INT,
4 PRIMARY KEY (doctor_id, patient_id),
5 FOREIGN KEY (doctor_id) REFERENCES doctor(id),
6 FOREIGN KEY (patient_id) REFERENCES patient(id)
7 );
Table created.

SQL>
```

## 8vo. Insertar los registros solicitados. - no olvidar dar commit

```
C:\WINDOWS\system32\cmd.exe - sqlplus
1 row created.

SQL> INSERT INTO patient VALUES (101, 'Michael', 'Johnson', 1);
1 row created.

SQL> INSERT INTO patient VALUES (102, 'Emily', 'Williams', 2);
1 row created.

SQL> INSERT INTO specialization VALUES (1, 'Cardiology');
1 row created.

SQL> INSERT INTO specialization VALUES (2, 'Orthopedics');
1 row created.

SQL> INSERT INTO diagnose VALUES (1001, 'Common Cold');
1 row created.

SQL> INSERT INTO diagnose VALUES (1002, 'Fractured Arm');
1 row created.

SQL> INSERT INTO doctor_patient VALUES (1, 101);
1 row created.

SQL> INSERT INTO doctor_patient VALUES (1, 102);
1 row created.

SQL> commit;
Commit complete.

SQL>

SQL Plus
1 row created.

SQL> INSERT INTO patient VALUES (104, 'Sophia', 'Jones', 2);
1 row created.

SQL> INSERT INTO patient VALUES (105, 'Liam', 'Davis', 1);
1 row created.

SQL> INSERT INTO specialization VALUES (3, 'Dermatology');
1 row created.

SQL> INSERT INTO specialization VALUES (4, 'Neurology');
1 row created.

SQL> INSERT INTO diagnose VALUES (1003, 'Skin Rash');
1 row created.

SQL> INSERT INTO diagnose VALUES (1004, 'Migraine');
1 row created.

SQL> INSERT INTO diagnose VALUES (1005, 'Hypertension');
1 row created.

SQL> INSERT INTO diagnose VALUES (1006, 'Diabetes');
1 row created.

SQL> INSERT INTO diagnose VALUES (1007, 'Anxiety');
1 row created.

SQL> INSERT INTO doctor_patient VALUES (2, 103);
```

## Aquí se observa los datos insertados

```
SQL> select * from doctor;

-----
ID FIRSTNAME LASTNAME
-----
1 John Doe
2 Jane Smith
3 Michael Johnson

SQL> select * from patient;

-----
ID FIRSTNAME LASTNAME INSURANCE
-----
103 Olivia Miller 1
104 Sophia Jones 2
105 Liam Davis 1
101 Emily Williams 1
102 Daniel Brown 2

SQL> select * from specialization;

-----
ID DESCRIPTION
-----
3 Dermatology
4 Neurology
1 Cardiology
2 Orthopedics

SQL> select * from diagnose;

-----
CODE DETAILS
-----
1003 Skin Rash
1004 Migraine
1005 Hypertension
1006 Diabetes
1007 Anxiety
1001 Common Cold

102 Daniel Brown 2

SQL> select * from specialization;

-----
ID DESCRIPTION
-----
3 Dermatology
4 Neurology
1 Cardiology
2 Orthopedics

SQL> select * from diagnose;

-----
CODE DETAILS
-----
1003 Skin Rash
1004 Migraine
1005 Hypertension
1006 Diabetes
1007 Anxiety
1001 Common Cold
1002 Fractured Arm

7 rows selected.

SQL> select * from doctor_patient;

-----
DOCTOR_ID PATIENT_ID
-----
1 101
1 105
2 102
2 103
3 104

SQL>
```