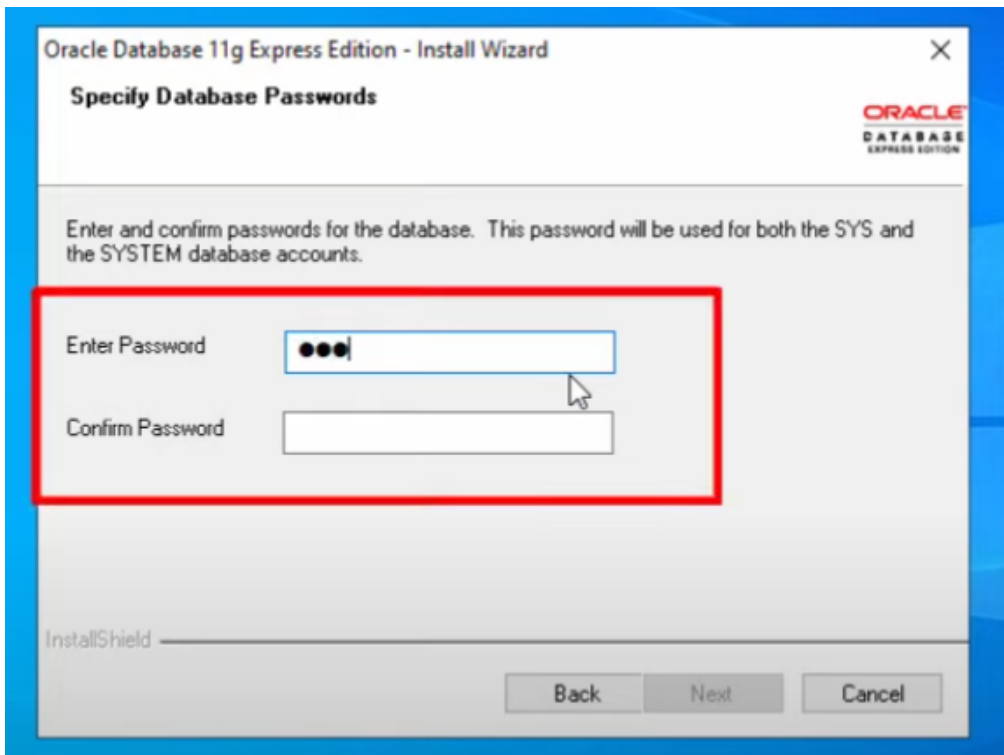
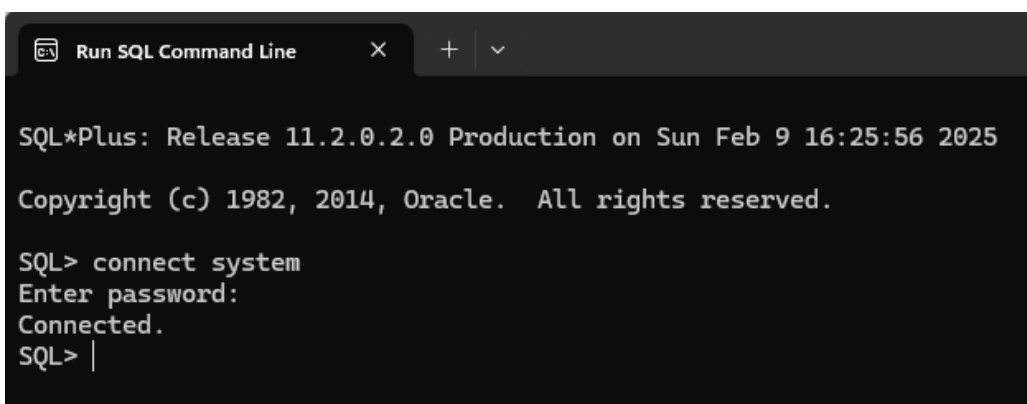


## ❖ Installation Process

Download the ([Oracle Database 11g Express Edition](#)) and install the software. Remember the password you set during the installation because this password is needed later.



After the completion of installation, open **Run SQL Command Line** and write 'connect system' and use the password that you set in the installation process. Follow the below figure.



If you forget the password, you can set a new one for the 'system' user using these commands:

```
connect / as sysdba
alter user system identified by [password];
```

## ❖ Creating Users and Giving System Privileges

### Create a user:

```
create user waliul034 identified by 1807034;
```

### Delete any user:

```
drop user [username];
```

### Grant system privileges to a user:

```
grant all privileges to [username];
```

### Revoke all the privileges from a user:

```
revoke all privileges from [username];
```

### Grant a specific privilege to a user:

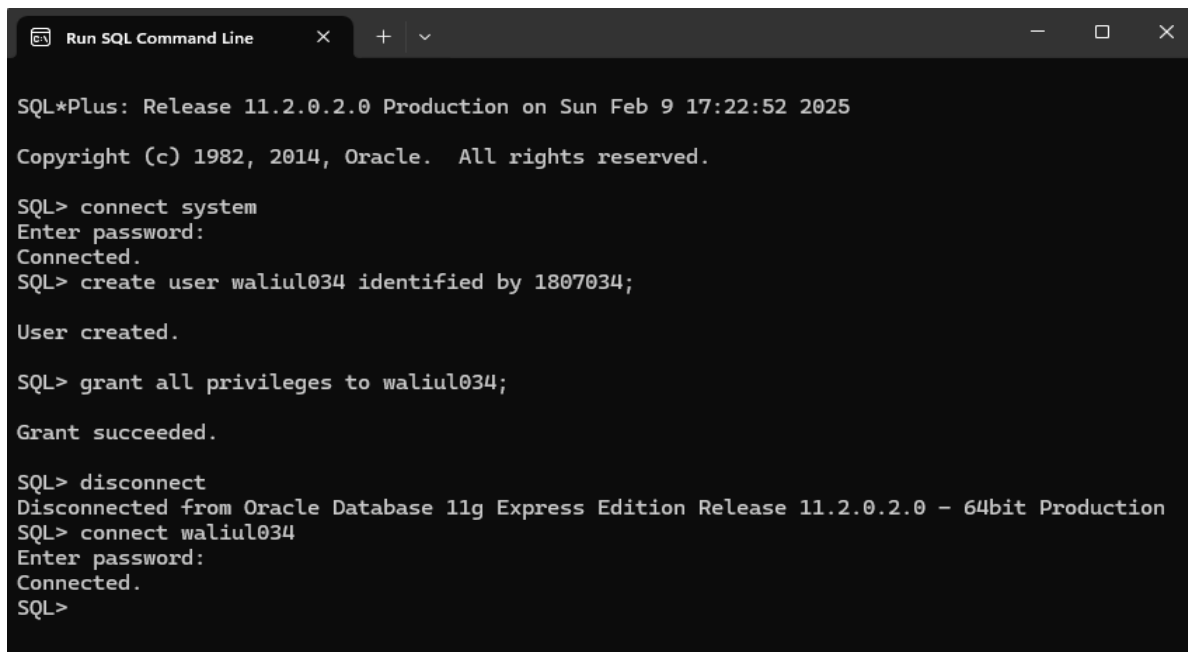
```
grant create session to [username];
```

### Revoke a specific privilege from a user:

```
revoke create session from [username];
```

### Create a role:

```
create role manager;  
grant create table, create session to manager;  
grant manager to waliul034;
```



```
Run SQL Command Line x + v - □ x  
SQL*Plus: Release 11.2.0.2.0 Production on Sun Feb 9 17:22:52 2025  
Copyright (c) 1982, 2014, Oracle. All rights reserved.  
SQL> connect system  
Enter password:  
Connected.  
SQL> create user waliul034 identified by 1807034;  
  
User created.  
  
SQL> grant all privileges to waliul034;  
  
Grant succeeded.  
  
SQL> disconnect  
Disconnected from Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production  
SQL> connect waliul034  
Enter password:  
Connected.  
SQL>
```

### Show and set line size and page size:

```
show pagesize  
show linesize  
set pagesize 100  
set linesize 200
```

## Example Oracle System Privileges

Privilege	Level	Purpose
CREATE SESSION	User	Connecting to database
CREATE TABLE	User	Creating tables in current user schema
UNLIMITED TABLESPACE	User	Allows user to create schema objects using as much space as needed
CREATE USER	DBA	Creating new users
GRANT ANY PRIVILEGE	DBA	Granting system privileges to users
CREATE ANY TABLE	DBA	Creating tables in any user schema
DROP ANY TABLE	DBA	Dropping tables in any user schema

### ❖ Working with Tables: Creation and Operations

#### Create a simple table:

```
create table test(  
  id number(3),  
  name varchar(20),  
  mark number(3,2)  
);
```

You can learn about different data types [here](#).

#### View table description:

```
describe test;
```

#### Insert some data into the table:

```
insert into test (id, name, mark) values (1, 'Abc', 8.32);  
insert into test (id, name, mark) values (2, 'DEF', 6.32);
```

#### View table data:

```
select * from test;
```

#### Check current username:

```
show user;
```

#### Check the existing tables in the database:

```
select table_name from user_tables;
```

#### Delete a table from the database:

```
drop table test;
```

```
Run SQL Command Line
SQL>
SQL> create table test(
2 id number(3),
3 name varchar(20),
4 mark number(3,2)
5 );

Table created.

SQL>
SQL> describe test;
Name Null? Type
-----
ID NUMBER(3)
NAME VARCHAR2(20)
MARK NUMBER(3,2)

SQL>
SQL> insert into test (id, name, mark) values (1, 'Abc', 8.32);

1 row created.

SQL> insert into test (id, name, mark) values (2, 'DEF', 6.32);

1 row created.

SQL>
SQL> select * from test;

ID NAME MARK
-----
1 Abc 8.32
2 DEF 6.32

SQL>
SQL> show user;
USER is "WALIUL034"
SQL>
SQL> select table_name from user_tables;

TABLE_NAME
-----
TEST

SQL>
SQL> drop table test;

Table dropped.

SQL>
```

#### Run SQL commands from a file:

You can run SQL scripts using the SQL command line. You can write your SQL commands in a text file and save it with a '.sql' extension (though this is not mandatory).. Then, type the below command:

```
start "G:\CSE 3110 (Database Systems Laboratory)\test_table.sql"
```

**THE END**