Attached you can find the materials for the database link. Note that, the slides provided here is made for a virtual machine as a site. If you follow the lab carefully, you should be able to do it for actual computers.

However, steps that I have followed in the lab is also mentioned below.

Steps:

1. At site:

    1.1. Turn off the **firewall**.
    1.2. Get the **IPv4** address (XXX.XX.XX.XXX). Note it down.

2. At server: Ping the site from **RUN**. If you get a successful reply, then everything is perfect.

3. At site:

    3.1. Go to
`C:\oraclexe\app\oracle\product\10.2.0\server\NETWORK\ADMIN\`

    3.2. Find **listener.ora** file.
    3.3. Open **listener.ora** using **NOTEPAD++** and do the following changes.
    3.4. Add the following commands to provide additional `SID_LIST` under the `SID_LIST_LISTENER` section (see slide - 6):

```
(SID_DESC =
       (SID_NAME = XE
       (ORACLE_HOME = C:\oraclexe\app\oracle\product\10.2.0\server)
)
```

    3.5. Add the following commands to provide additional `DESCRIPTION_LIST` under the `LISTENER` section (see slide - 6):

```
(ADDRESS = (PROTOCOL = TCP)(HOST = XXX.XX.XX.XXX)(PORT = 1521))
```

    3.6. Save the changes.
    3.7. Run **CMD** with the administrative mode.
    3.8. In **CMD**, run the command `lsnrctl stop`. If you get a successful message then ok (see slide - 7), if error, that means `lsnrctl` was already stopped before, so we have to start it, go to step 3.9.
    3.9. Again in **CMD**, run the command `lsnrctl start`. If you get a successful message then ok (see slide - 7).

4. At server:

    4.1. Run your **sqlplus** and log in. Execute the following codes (also provided as conn.sql) to generate a database link with the site:

```
drop database link site_link;

      create database link site_link
      connect to username identified by "password" --[[password =
sqlplus password]]
      using '(DESCRIPTION =
                        (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP) (HOST
= XXX.XX.XX.XXX) (PORT = 1521)))
                    (CONNECT_DATA = (SID = XE))
                )' ;
```

    4.2. Now, select/ insert/ delete any data of the site from server using `@site_link`. For example:

```
      select * from student@site_link;
```