For My Students Only:

How to connect to YOUR Database from Windows laptop?

Step-0: Instructions:

	If you are on Server-220 	**If you are on Server-221** 	**If you are on Server-222** 	**If you are on Server-223** 
Hostname:	TN	Boston	NY	Chicago
DBName:	??	??	??	??
Port:	6220	6221	6222	6223
Protocol:	TCP	TCP	TCP	TCP

Step-1: Perform the following on Database Server (Unix Server):

No	**Description**	**Command / Screenshot**
1	Login to Database Server	Putty to ----------.com
1.1	If required, ssh to your database server	ssh oracle@192.168.0.222
2	Switch user to oracle	su - oracle
3	Verify Listener is running. If not, start it.	

If you DB is on:	**Verify listener is running**	**If listener not running, start it.**
Linux-220	lsnrctl status lsnr_6220	lsnrctl start lsnr_6220
Linux-221	lsnrctl status lsnr_6221	lsnrctl start lsnr_6221
Linux-222	lsnrctl status lsnr_6222	lsnrctl start lsnr_6222

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Linux-223</td><td>lsnrctl status lsnr_6223</td><td>lsnrctl start lsnr_6223</td></tr>
<tr><td>Linux-224</td><td>lsnrctl status lsnr_6224</td><td>lsnrctl start lsnr_6224</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>Login as SYS with sysdba privilege</td><td>sqlplus / as sysdba</td></tr>
<tr><td>5</td><td>Update local_listener parameter</td><td>alter system set local_listener=CONNECT_FROM_OUTSIDE;</td></tr>
<tr><td>6</td><td>Register service in all listeners. In this case, we want to register in all listeners</td><td>alter system register;</td></tr>
<tr><td>7</td><td>Verify listener has registered the database service in listener</td><td>
<table>
<tr><th>If you DB is on:</th><th>Verify listener is running</th></tr>
<tr><td>Linux-220</td><td>lsnrctl service lsnr_6220</td></tr>
<tr><td>Linux-221</td><td>lsnrctl service lsnr_6221</td></tr>
<tr><td>Linux-222</td><td>lsnrctl service lsnr_6222</td></tr>
<tr><td>Linux-223</td><td>lsnrctl service lsnr_6223</td></tr>
<tr><td>Linux-224</td><td>lsnrctl service lsnr_6224</td></tr>
</table>
</td></tr>
</table>

Step-2: On Client Laptop (on Windows):

No	Description	Command / Screenshot
1	Be sure to have oracle client installed.	• For 11g: → c:\u01\app\oracle\product\11.2.0\client_1 • For 12c: → c:\u01\app\oracle\product\12.1.0\client_1
2	Connection String	Using netca, create the connection string if it is not already created 1. Start cmd with “run as administrator” option 2. Type “netca” 3. Pick the third option where it says “Local Net Service Name Configuration” → Next 4. Service_name → YourDBName 5. Protocol → TCP

		6. Port → Select from above instructions. 7. For Net Service Name → YourDBName 8. Save and let it create the netca create connection string for you

No	Description	Command / Screenshot
1	Login to Database Server	
1.1	If required, ssh to your database server	ssh oracle@192.168.0.222
2	Switch user to oracle	su - oracle
3	Login as SYS with sysdba privilege	sqlplus / as sysdba
4	Update local_listener parameter	alter system set local_listener=CONNECT_FROM_OUTSIDE;
5	Register service in all listeners. In this case, we want to register in all listeners	alter system register;
6	Exit out of SQL:	exit;
7	Verify the connection string is good to go	Tnsping YourDBName
8	Connect to database from cmd using sqlplus	sqlplus scott/abc123@YourDBName