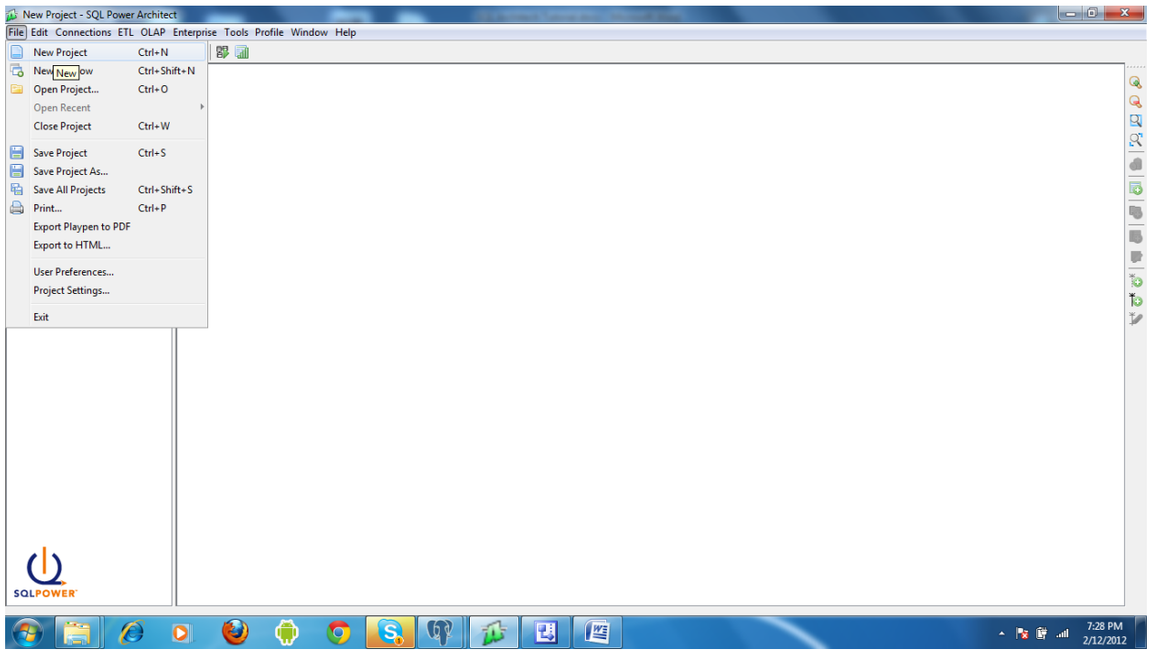
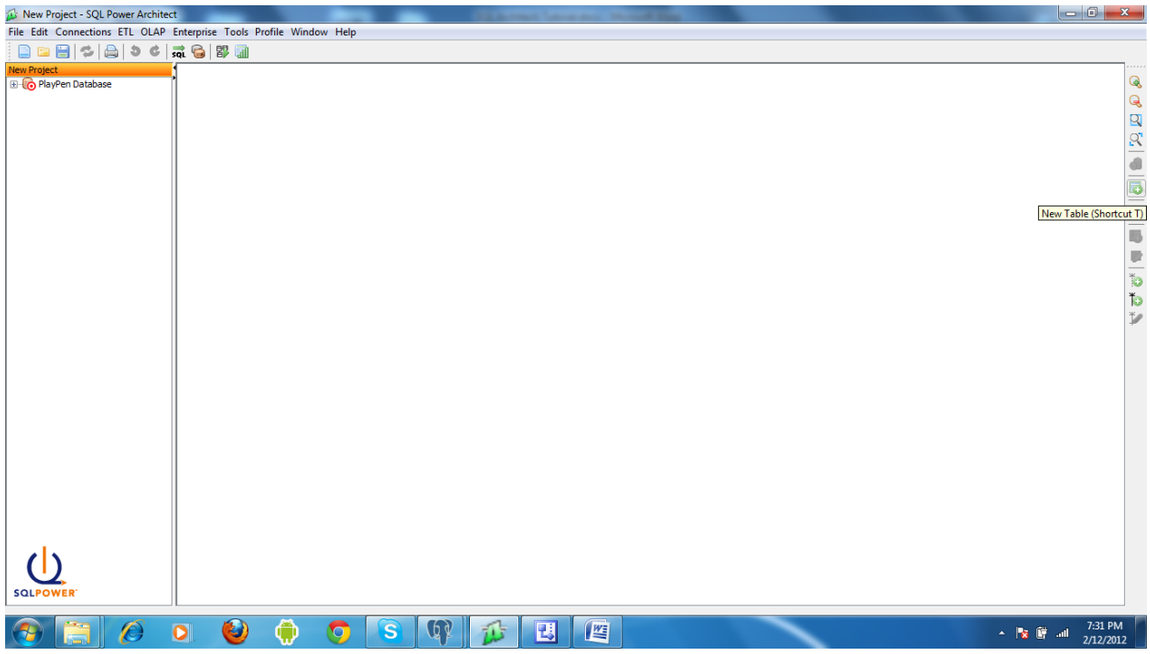
SQL Power Architect with PostGreSQL

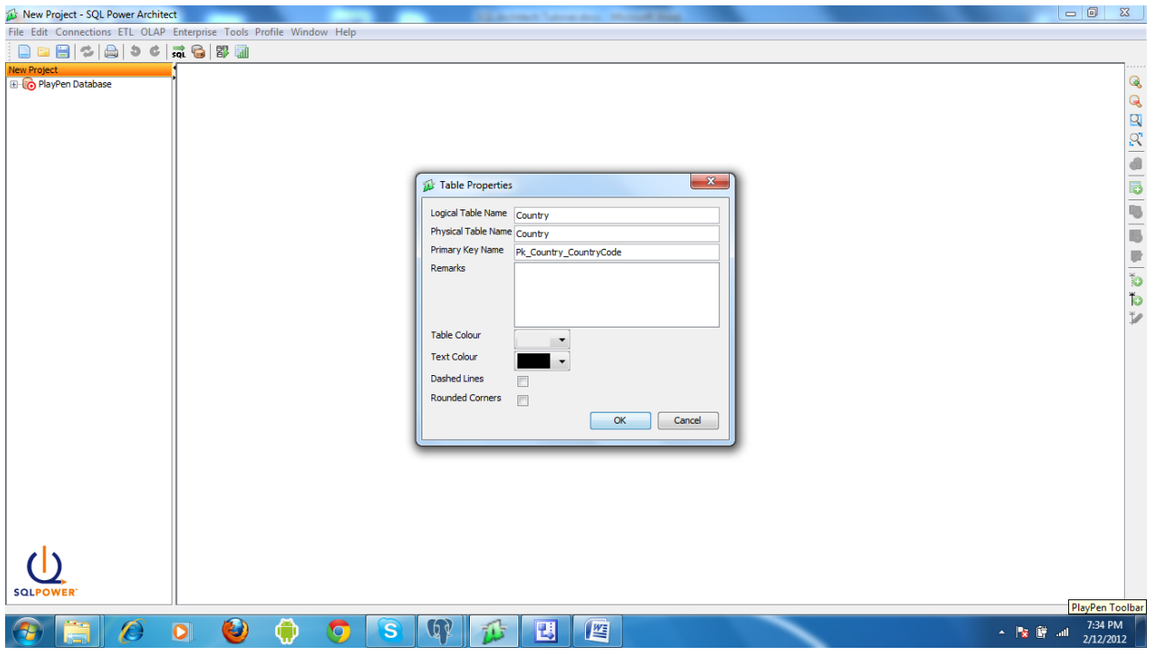
1. Open SQL Power Architect.
2. Go to File > new Project.



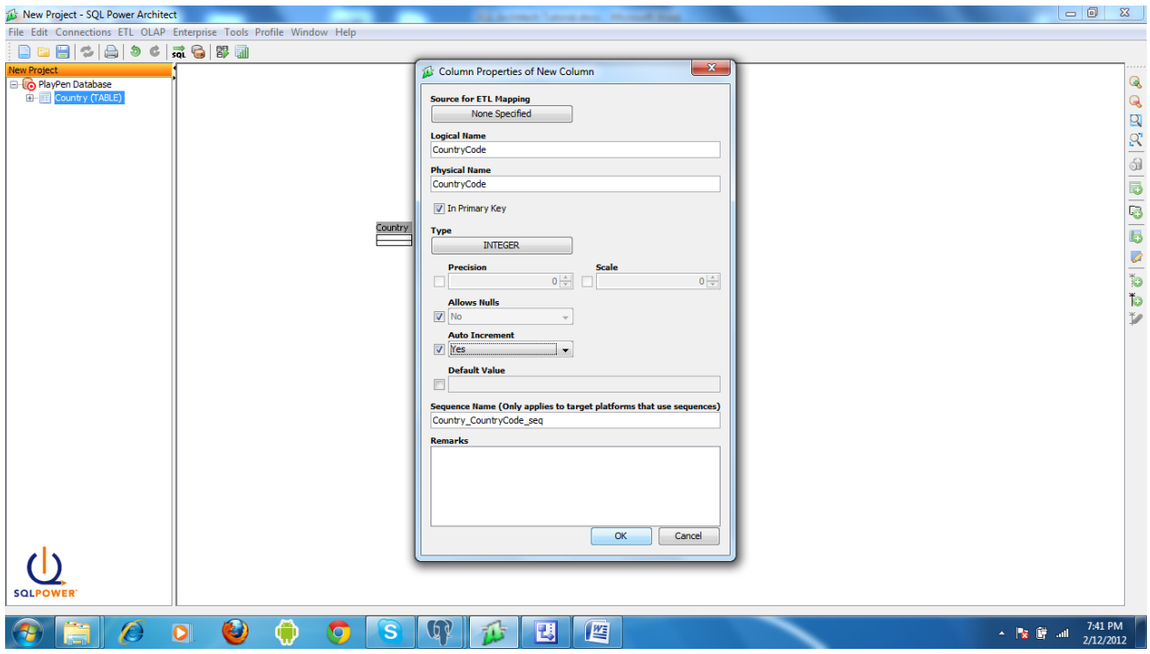
3. At right side vertical panel, all basic buttons exists. Select the icon in below image (pointed by curser) with + symbol for creating new table. Or you can right-click anywhere and click create table.



4. Click there and then click in canvas. Now, suppose there are two table. Customer and Country. Where customer has a foreign key named country code which is a reference of the primary key of country table.
5. Lets create country table putting same physical and logical name and primary key ‘CountryPk’.

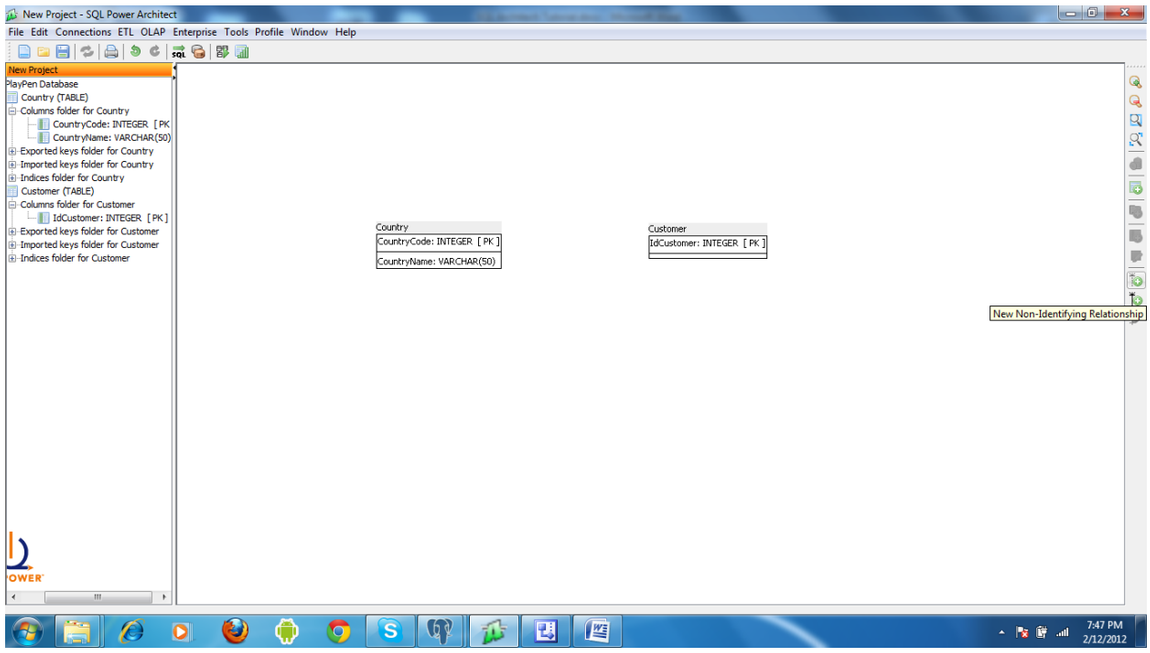


6. Click ok. Now, a table named ‘Country’ appears in canvas. Right click on table and select new column. If primary key then tick mark it, select datatype, also mark ‘Allows Nulls’ and ‘Auto Increment’ everytime and select what you want to choose. i.e., if you don’t want to add auto increment, still you check it and select no.

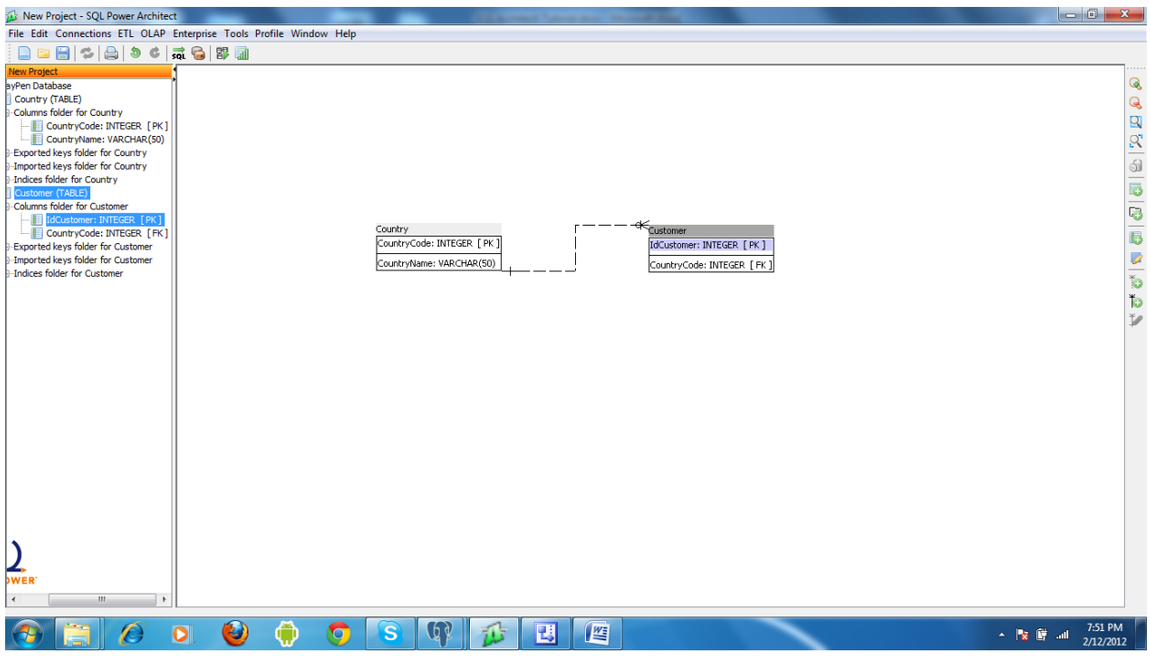


7. In the same way we create another column named CountryName in Country table and Customer table with IdCustomer only.

8. Now we have two tables. We need to create relation so that CountryCode appear in Customer table. Note that, we should not use new identifying relation, because it becomes composite key. Choose non-identifying, the above one.

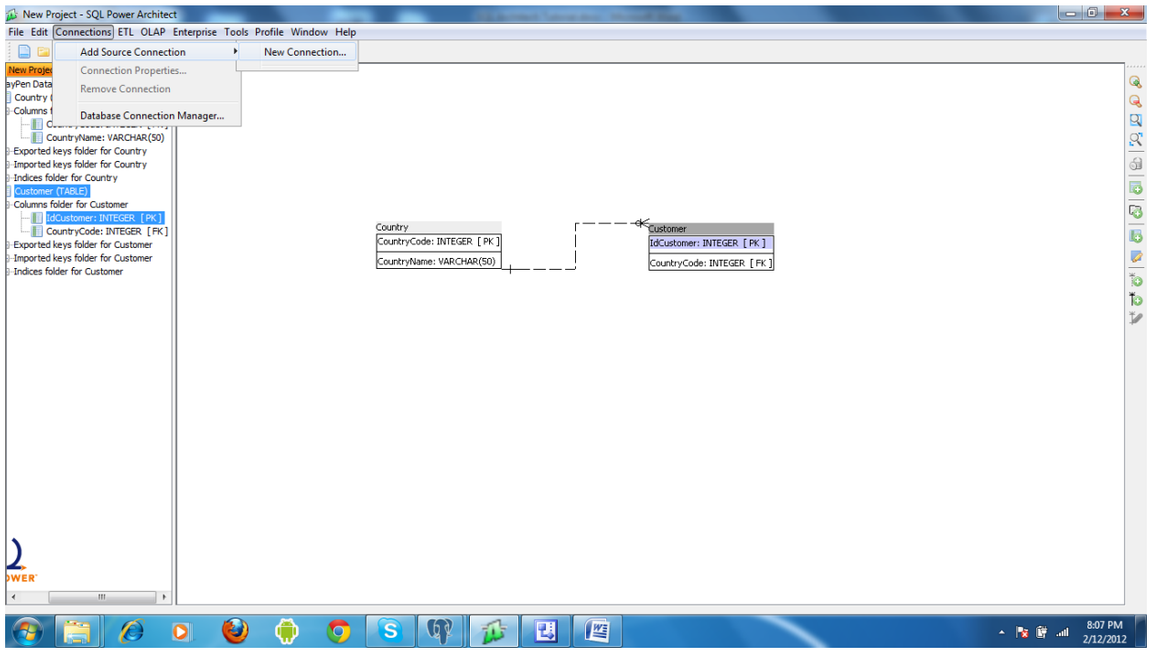


9. Now click on New Identifying Relationship. First click on country, 2nd click on Customer.

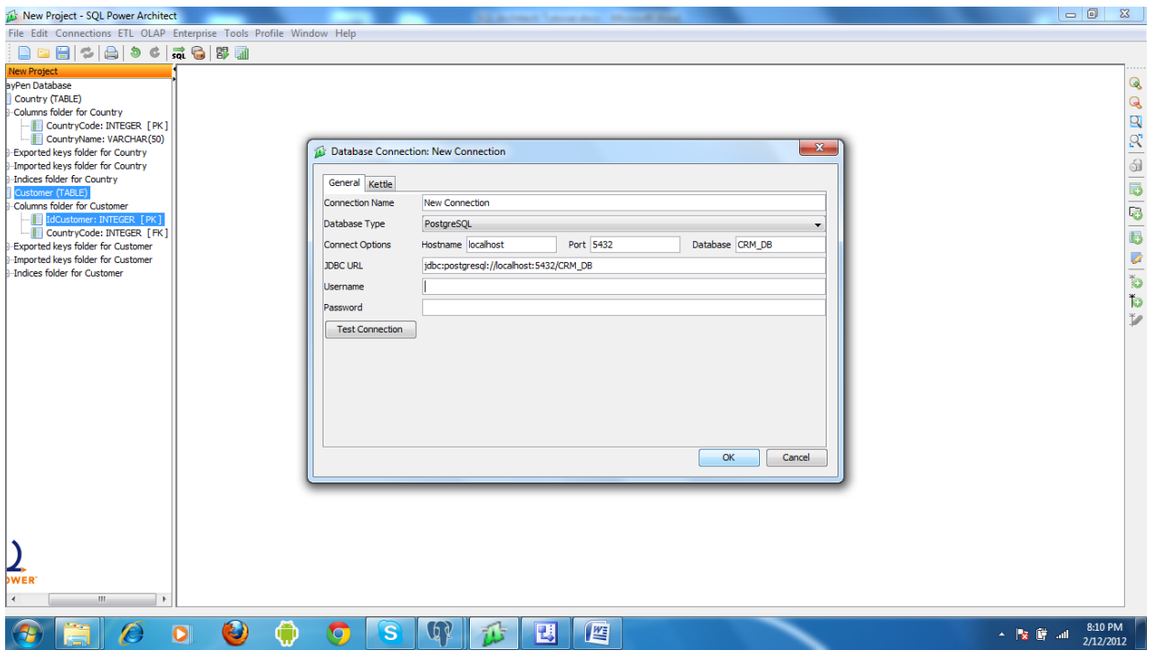


Now country code appears on Customer as Fk, right?

10. Once the ER is complete, do the following. From connection menu, add source Connection
    - new connection.

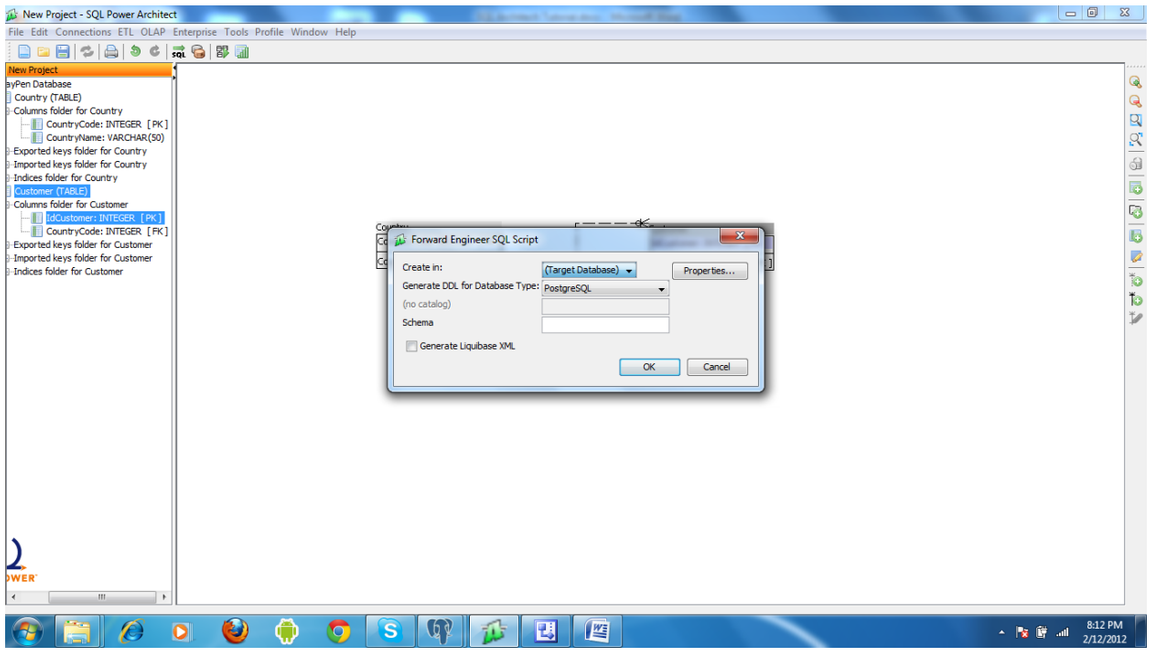


Select database type.



Note that, create db in pgsql first, then create connection here to that db.

11. Now go to tool forward engineer. In window, select your connection. Write schema as your database name.



It will create sql script, that script may be used from pgsql front end to create tables.

In pgsql front end – paste whole script and execute.

That's it. Thank you!

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