Data Structures in Eclipse Dirigible

Follow the steps:

1. <u>Create project</u>: click with the right button on the workspace explorer on the left and choose *New* and from the dropdown menu select *Project*;
2. <u>Name your project</u>: choose appropriate name, then click *Next*;
3. <u>Project template:</u> you can select one of the predefined project templates, but for now you need to select *Black application*, then click *Finish*;
4. <u>Create a new data structure:</u> click with the right button on the project name and from the dropdown menu choose *Data Structure*;
5. <u>Create a database table:</u> select *Relational Database Table*, then click *Next*;
6. <u>Add table properties:</u> Click *Add* to create different columns:
   - Define an ID attribute as a primary key (write "ID" for the column *Name*, select "Integer" for the *Type,* select both empty boxes "*Not null?*" and *"Primary Key?",* click *OK*);
   - Add 2nd column with attributes: *Name –> FIRST_NAME, Type -> VARCHAR, Length -> 30,* select *"Not Null?"* and *OK;*
   - Add 3th column with attributes: *Name –> LAST_NAME, Type -> VARCHAR, Length -> 30,* select *"Not Null?"* and *OK;*
   - Add 4th column with attributes: *Name –> AVERAGE_GRADE, Type -> DOUBLE,* select *"Not Null?"* and *OK;*
   - Add 5th column with attributes: *Name –> BIRTH_DATE, Type -> DATE*, select *"Not Null?"* and *OK;*
7. <u>Name your table:</u> you can name it with "students";
8. <u>Publish your project:</u> click with the right button on the project name and from the dropdown menu choose *Publish*;
9. <u>Open the database view:</u> on the top of the program select *other…*, then choose the option *Database* , then *OK*;
10. <u>SQL Console:</u> Type SELECT*FROM command and the name of the table in the *SQL Console window*;
11. <u>Click on *Query*</u>: If nothing shows up, another *Data Structure* should be implemented;
12. <u>Adding new data structure:</u> select the *DSV template* and choose *Next*;
13. <u>Find your table</u> and click on it -> *Next* -> *Finish*;
14. <u>Publish your project</u> again;
15. <u>Open the database view</u>;
16. Type SELECT*FROM command and the name of the table in the SQL Console window -> Query -> <u>successful publishing</u>;