**Build and run instructions of Oracle Coding Challenge**

For this challenge, I am using the Oracle Database Express and SQL Developer to write my code.

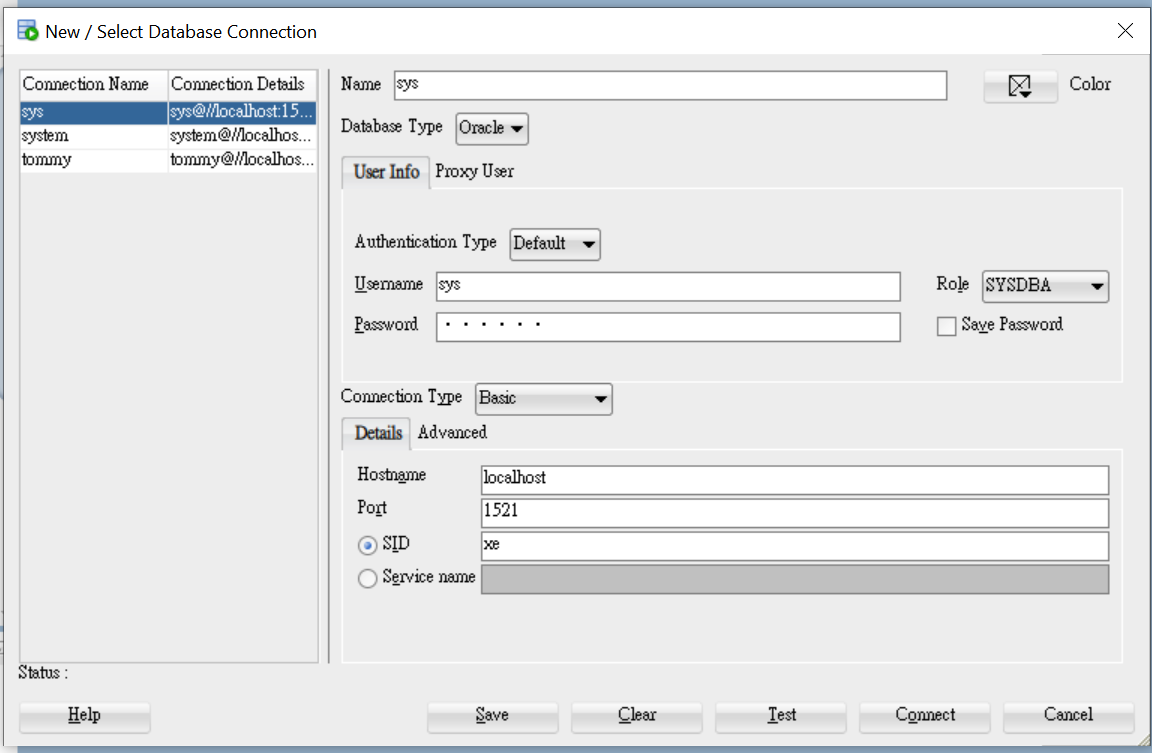
<https://www.oracle.com/uk/database/technologies/appdev/xe/quickstart.html>

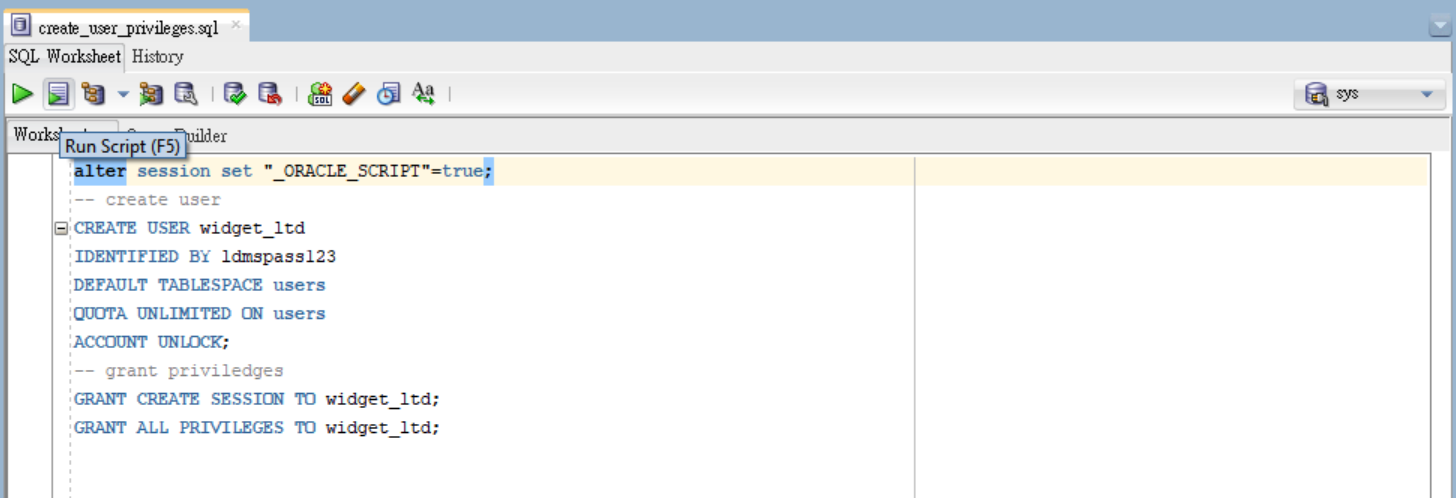
<https://www.oracle.com/tools/downloads/sqldev-downloads.html> (Windows and Mac version)

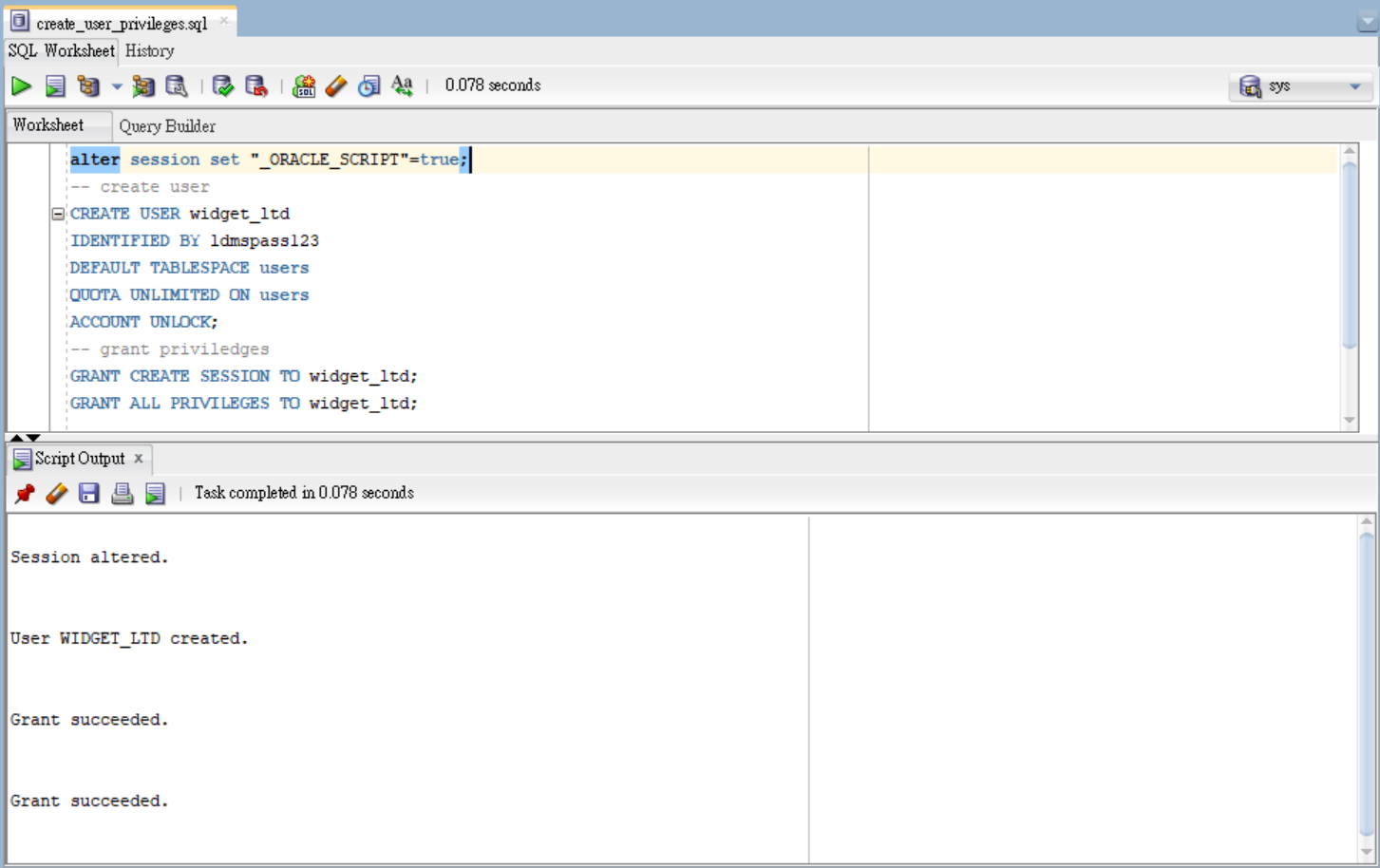
**Instructions**

1. Create a new user by using user “sys” and grant the privileges to the new user.

***create\_user\_privileges.sql***







1. Create tables Departments and Employees

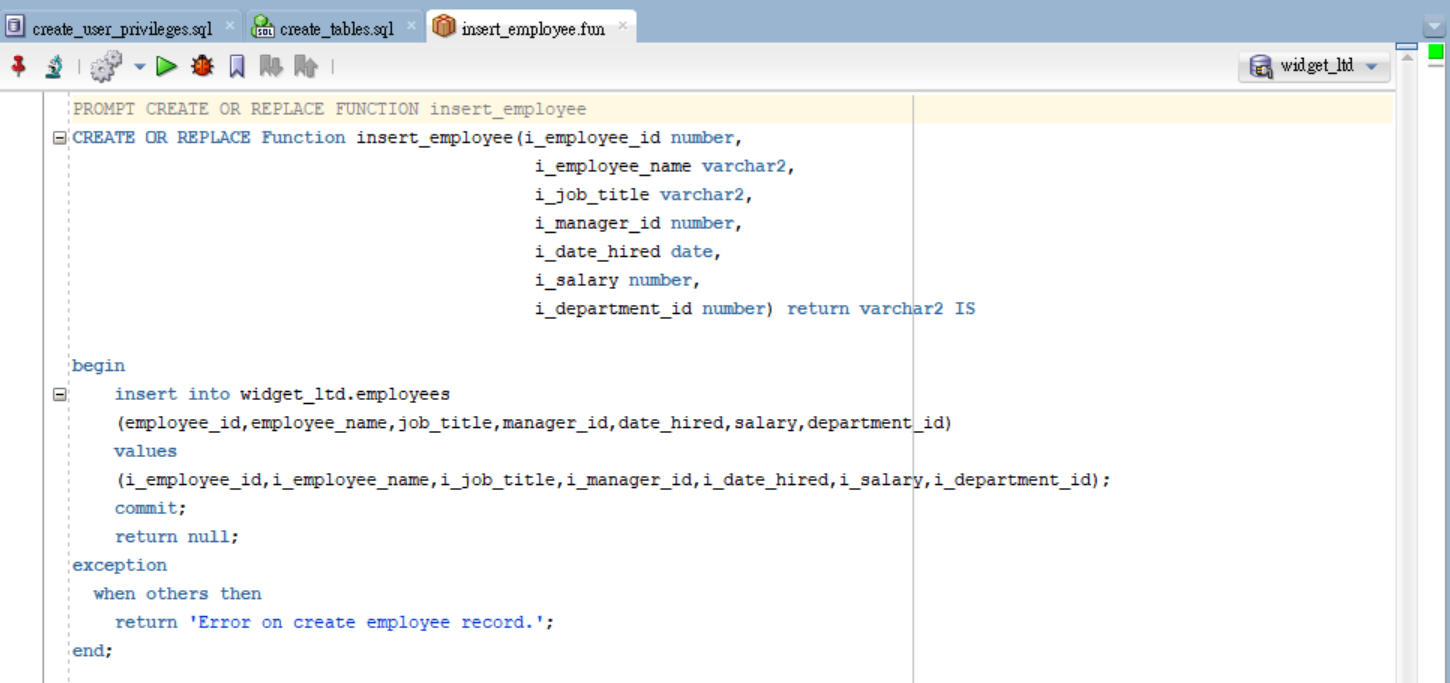
***create\_tables.sql***

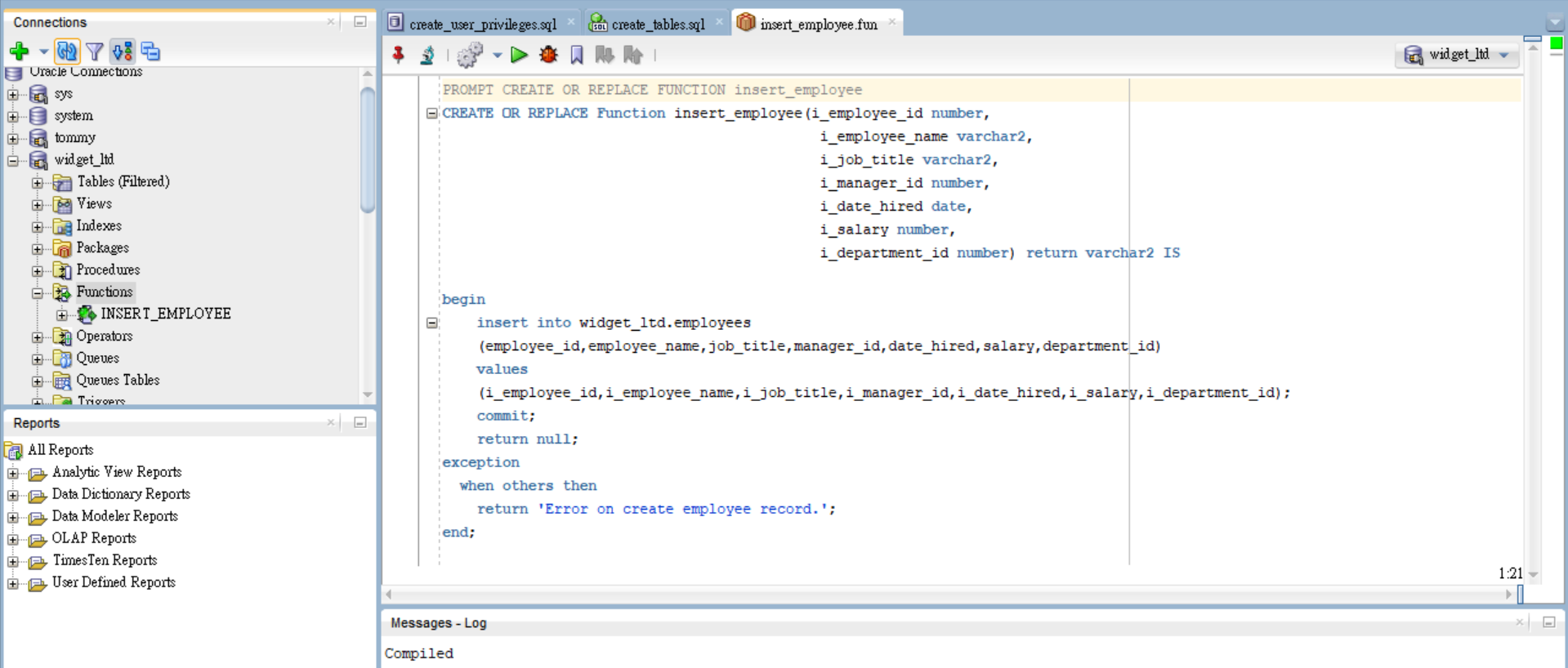




1. Compile the function of create employee

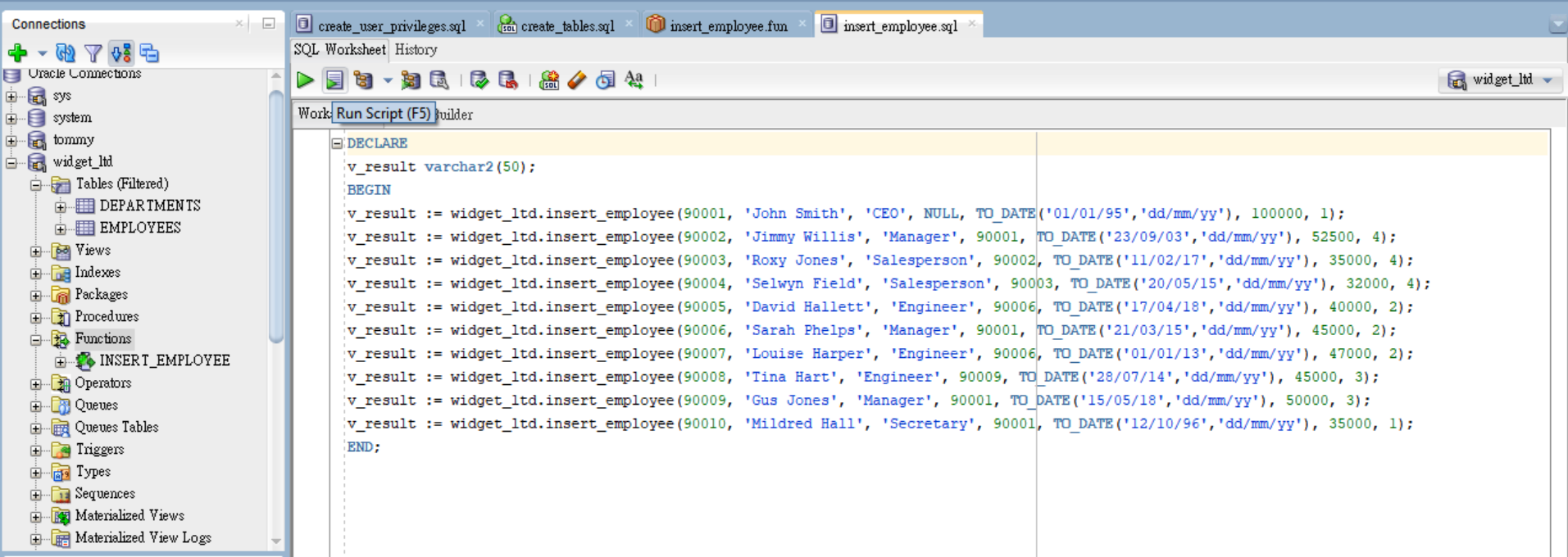
***insert\_employee.fun***

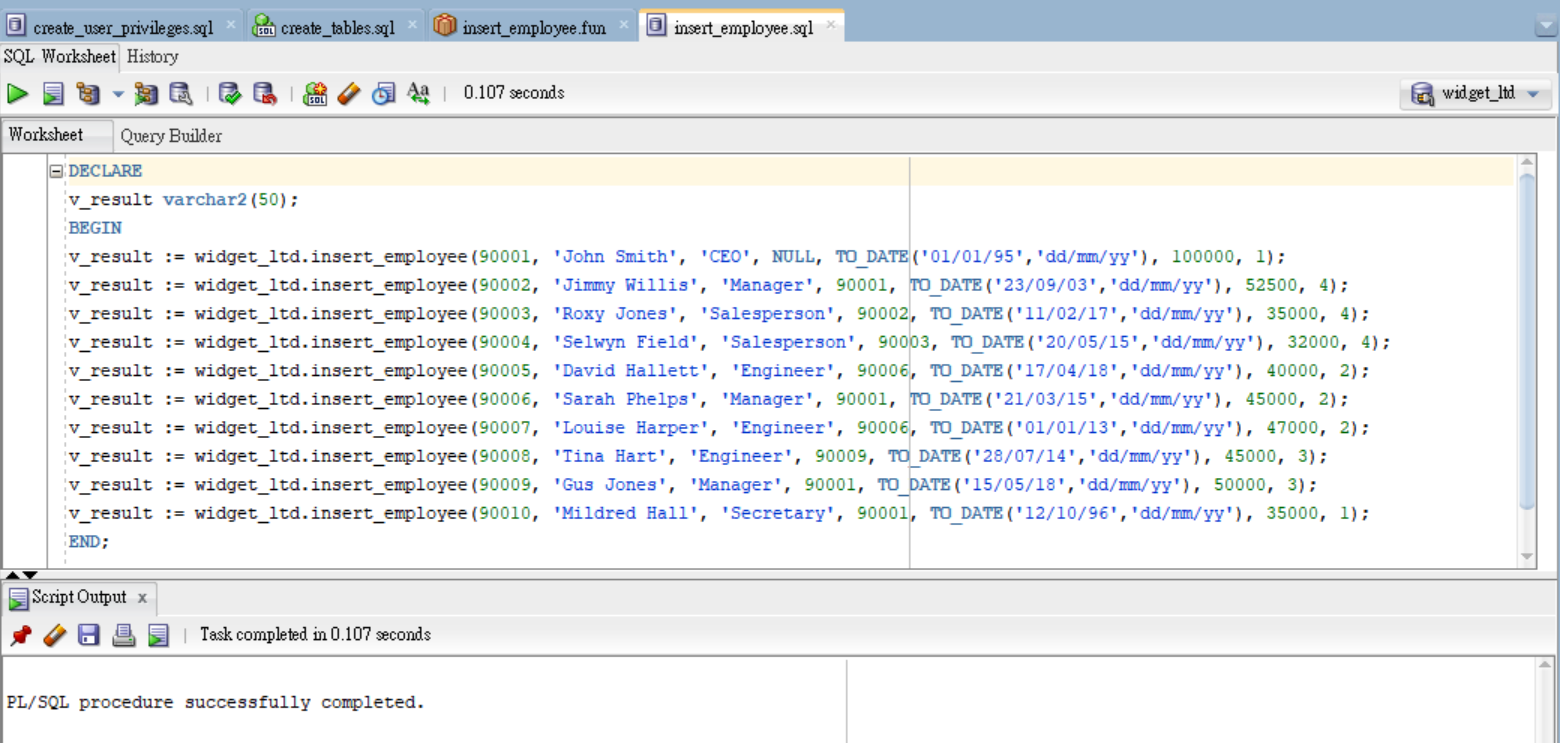


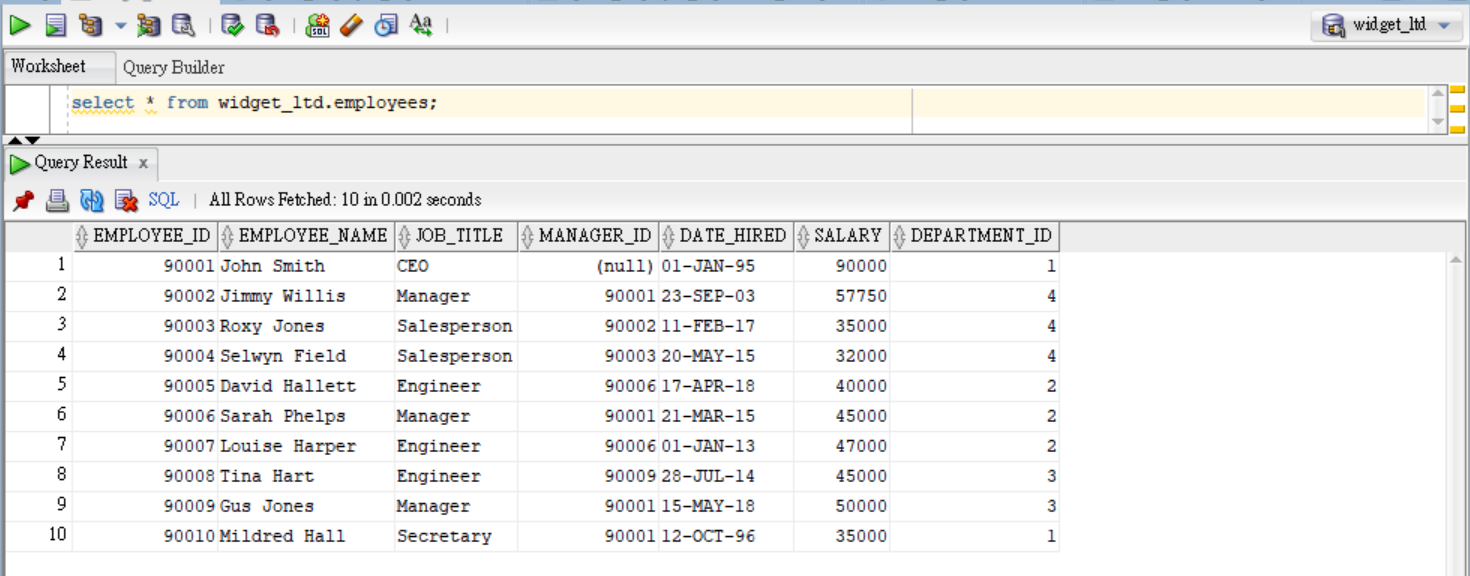


1. Insert employee data provided to table

***Insert\_employee.sql***

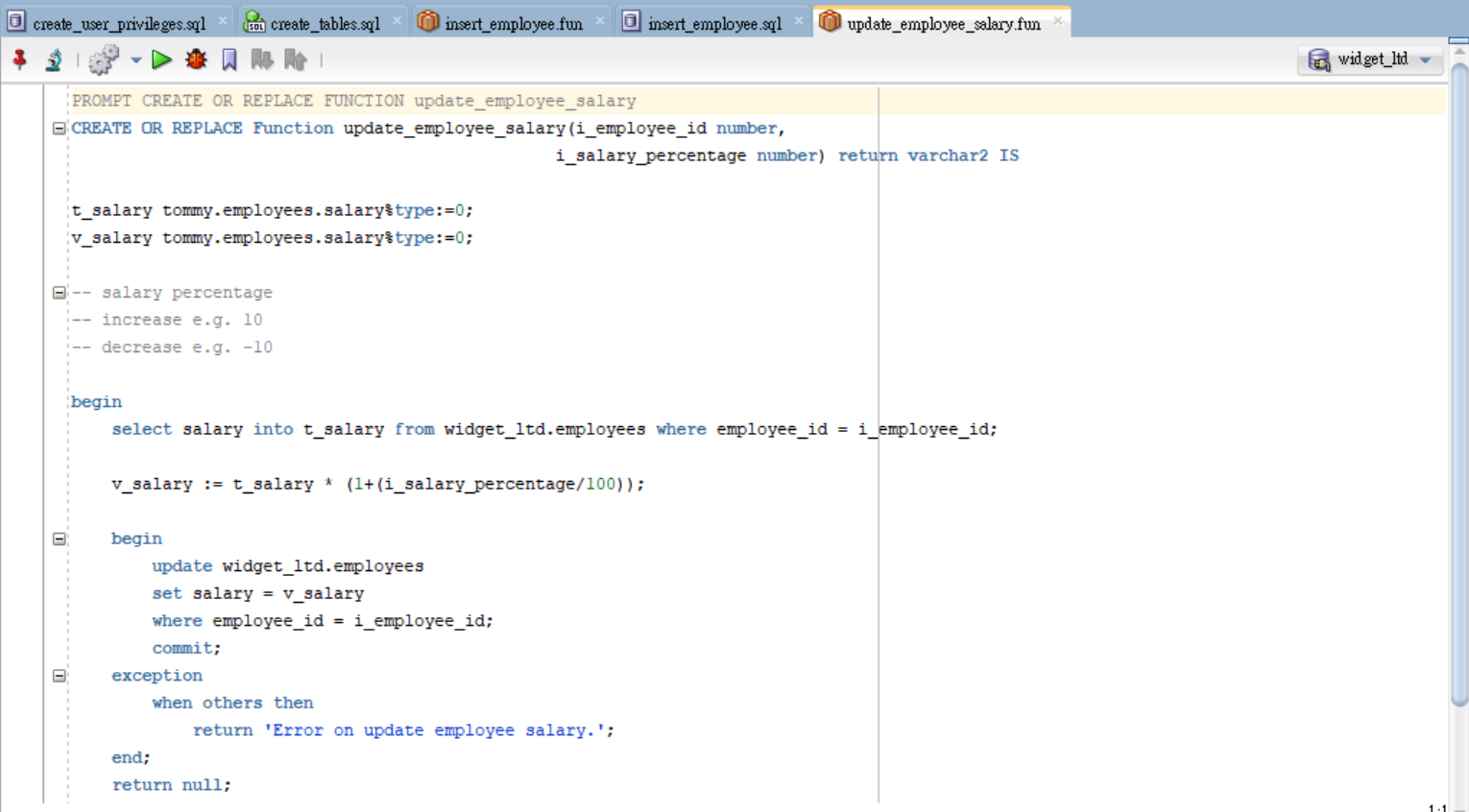


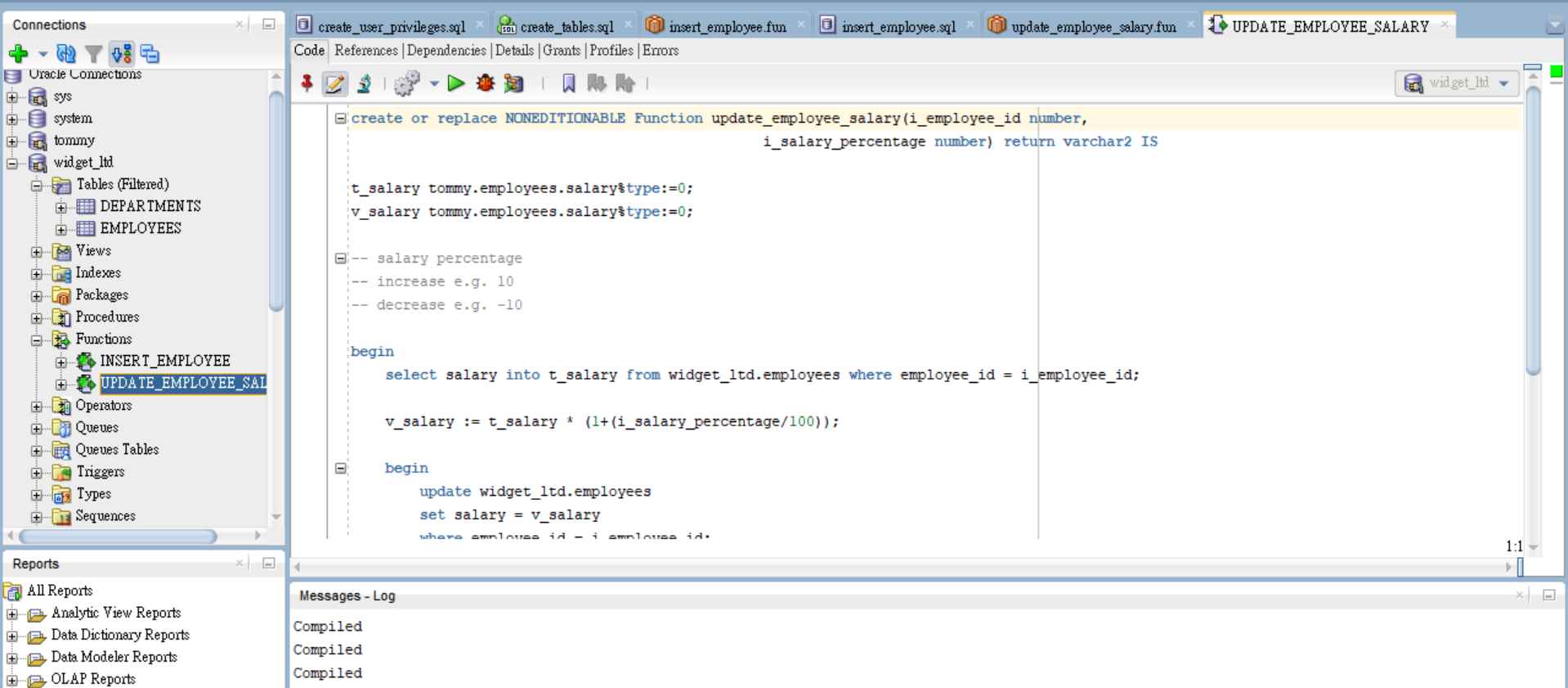




1. Compile the function allow the Salary for an Employee to be increased or decreased by a percentage

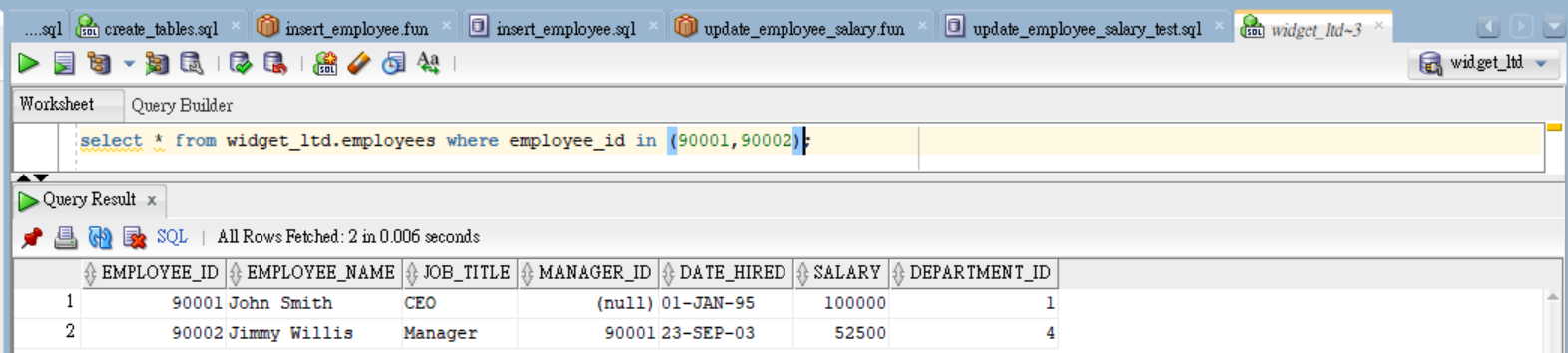
***update\_employee\_salary.fun***





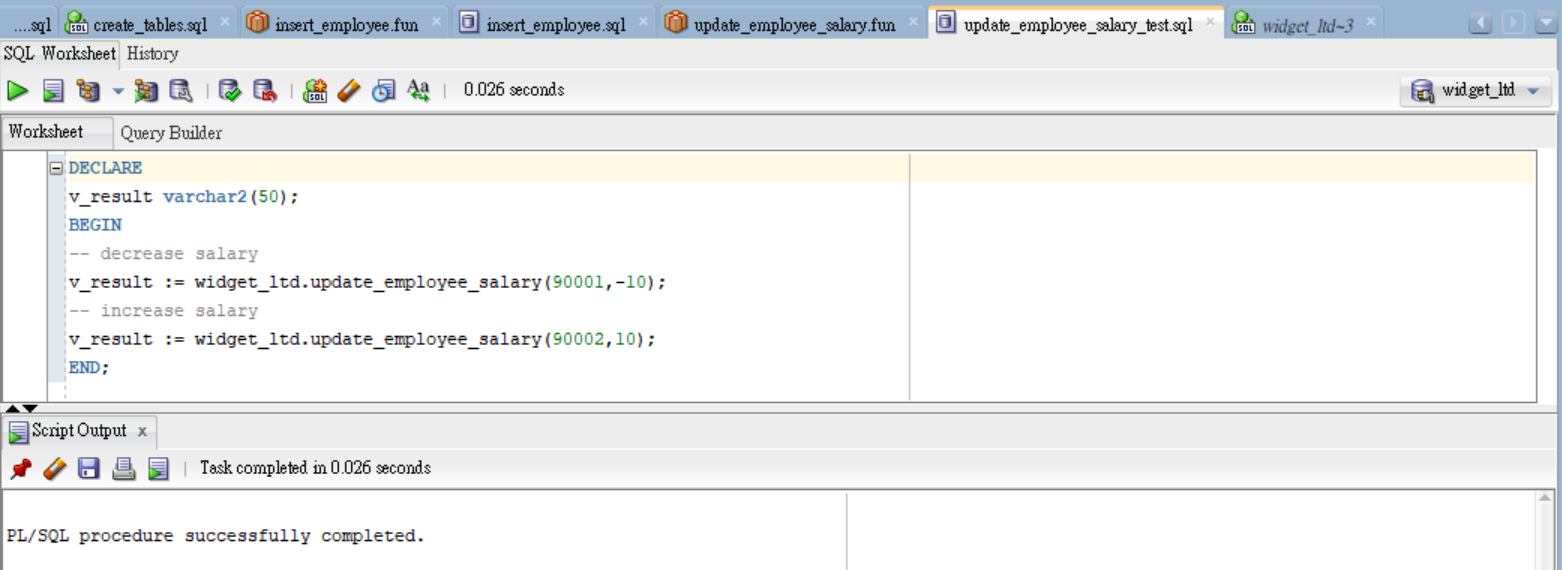
Test the salary update function

Before update salary

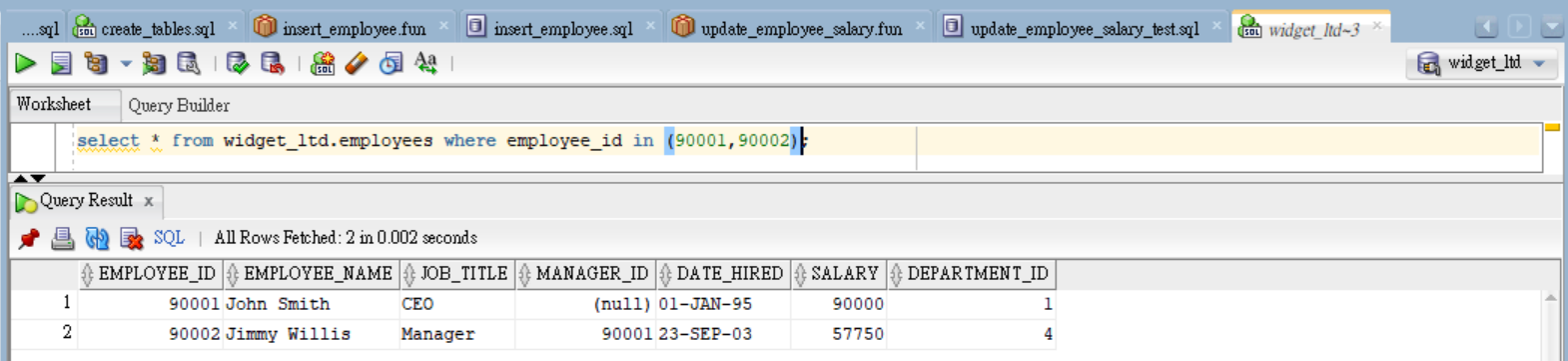


Update salary

***update\_employee\_salary\_test.sql***

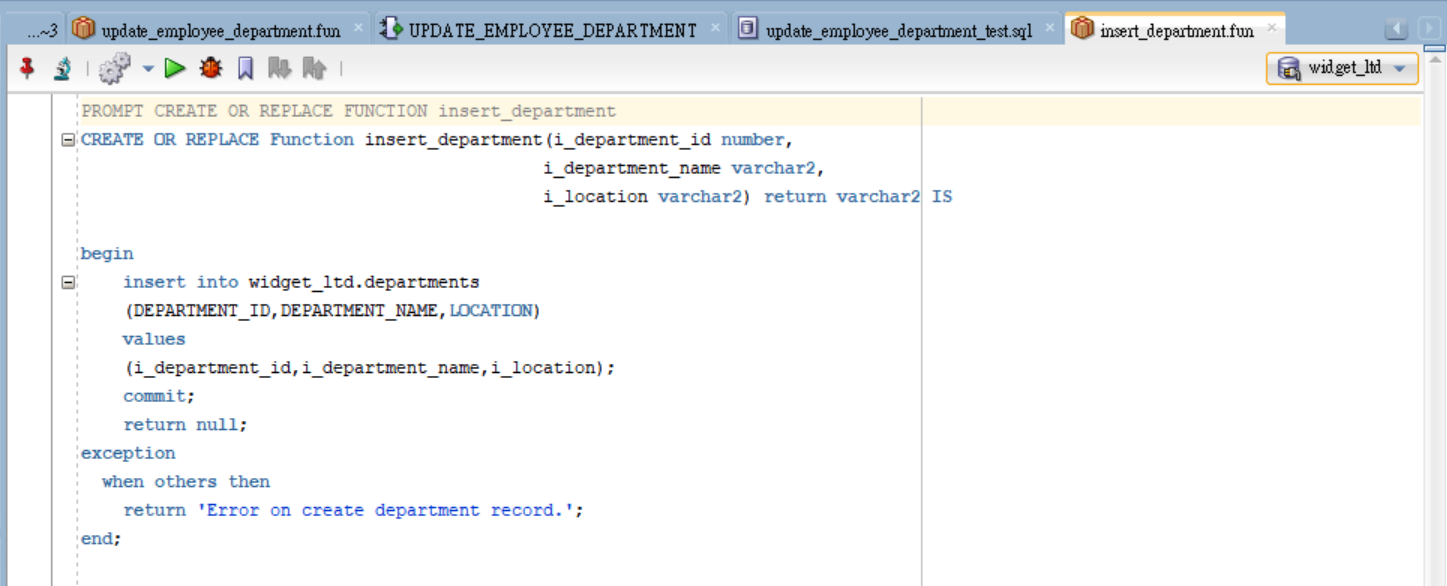


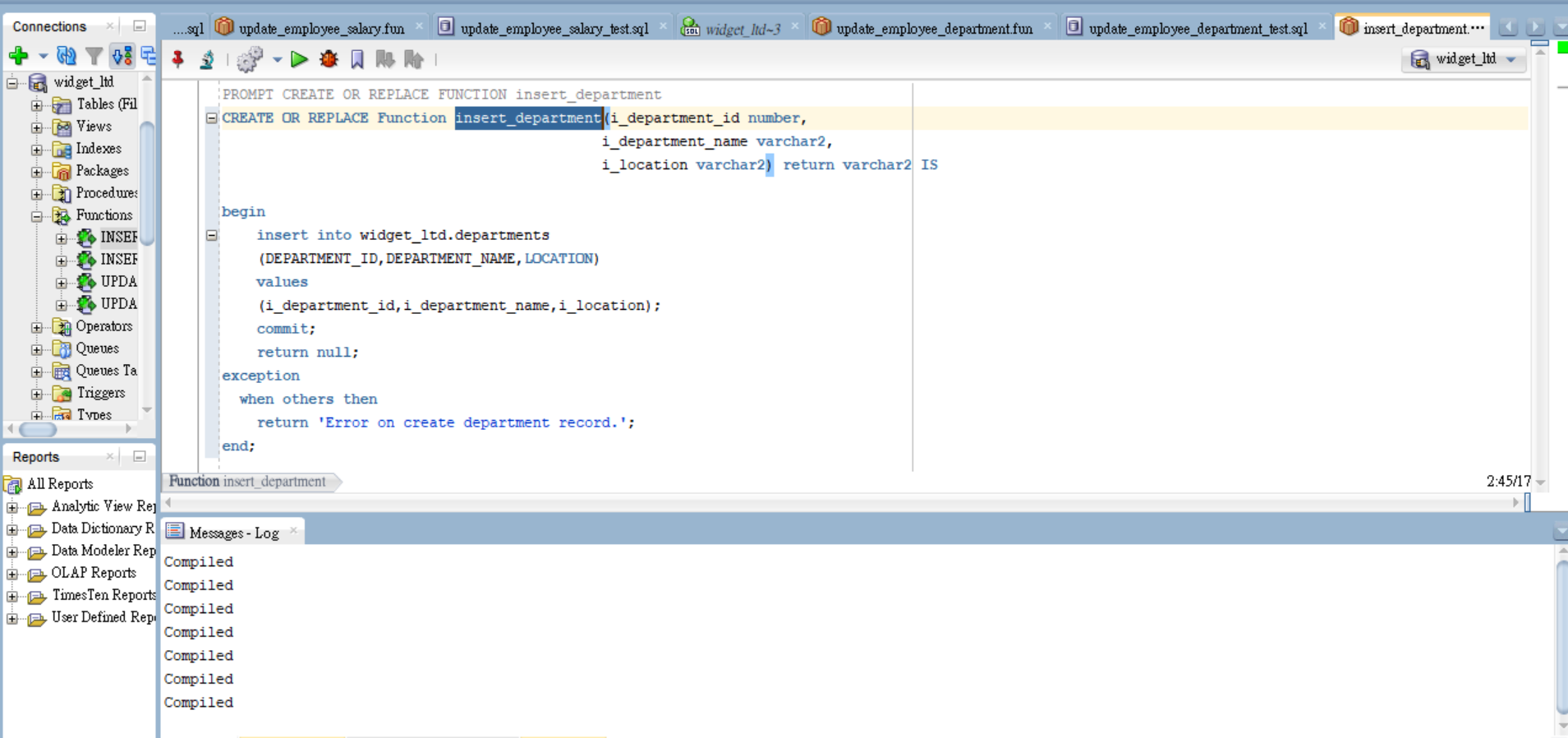
After updated salary



1. Compile the function for create department

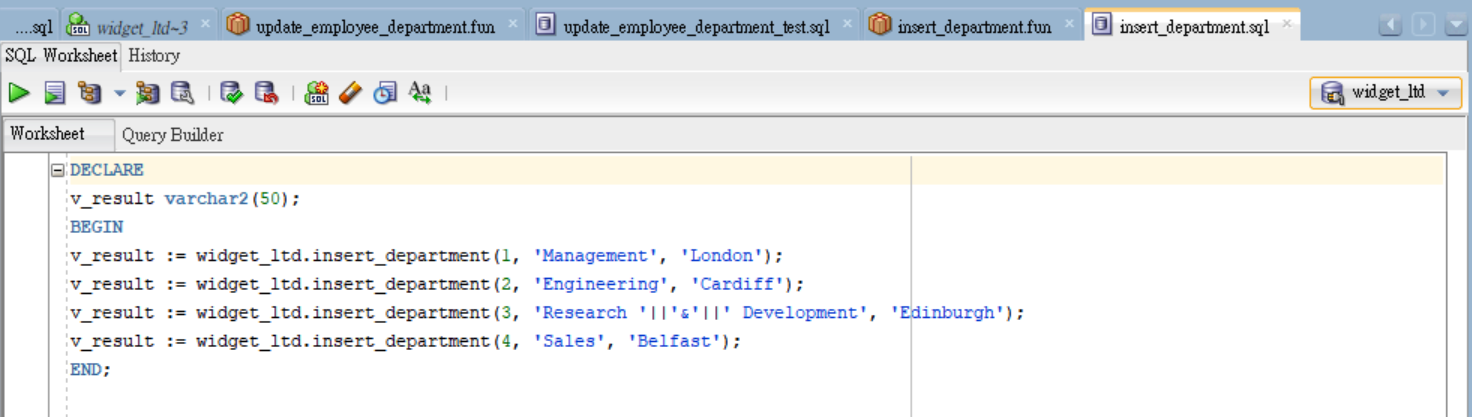
***insert\_department.fun***

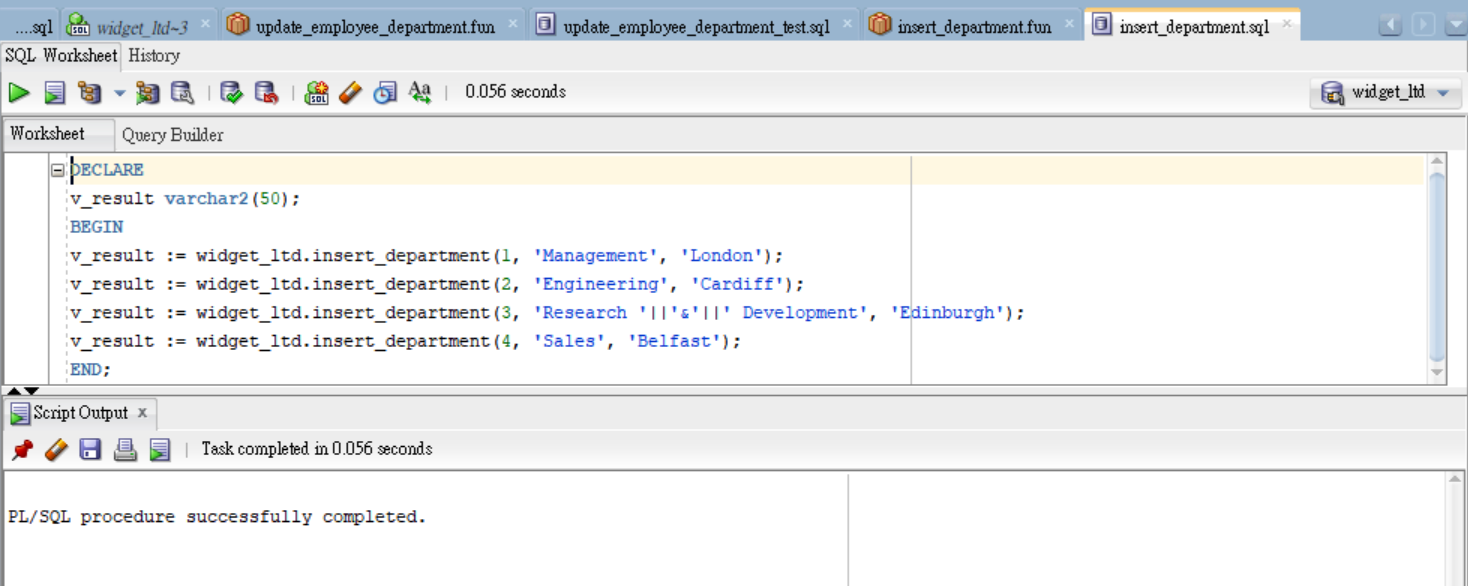


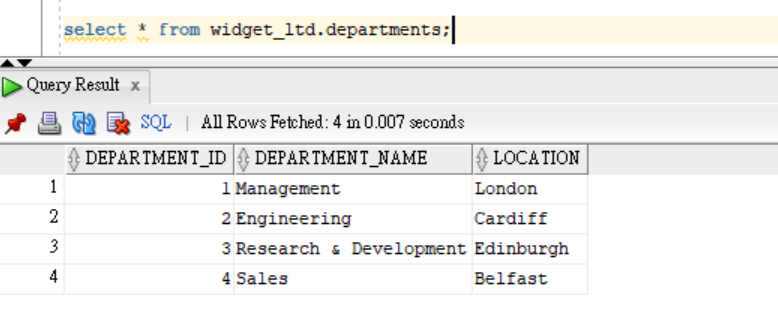


1. Insert department data provided to table

***insert\_department.sql***

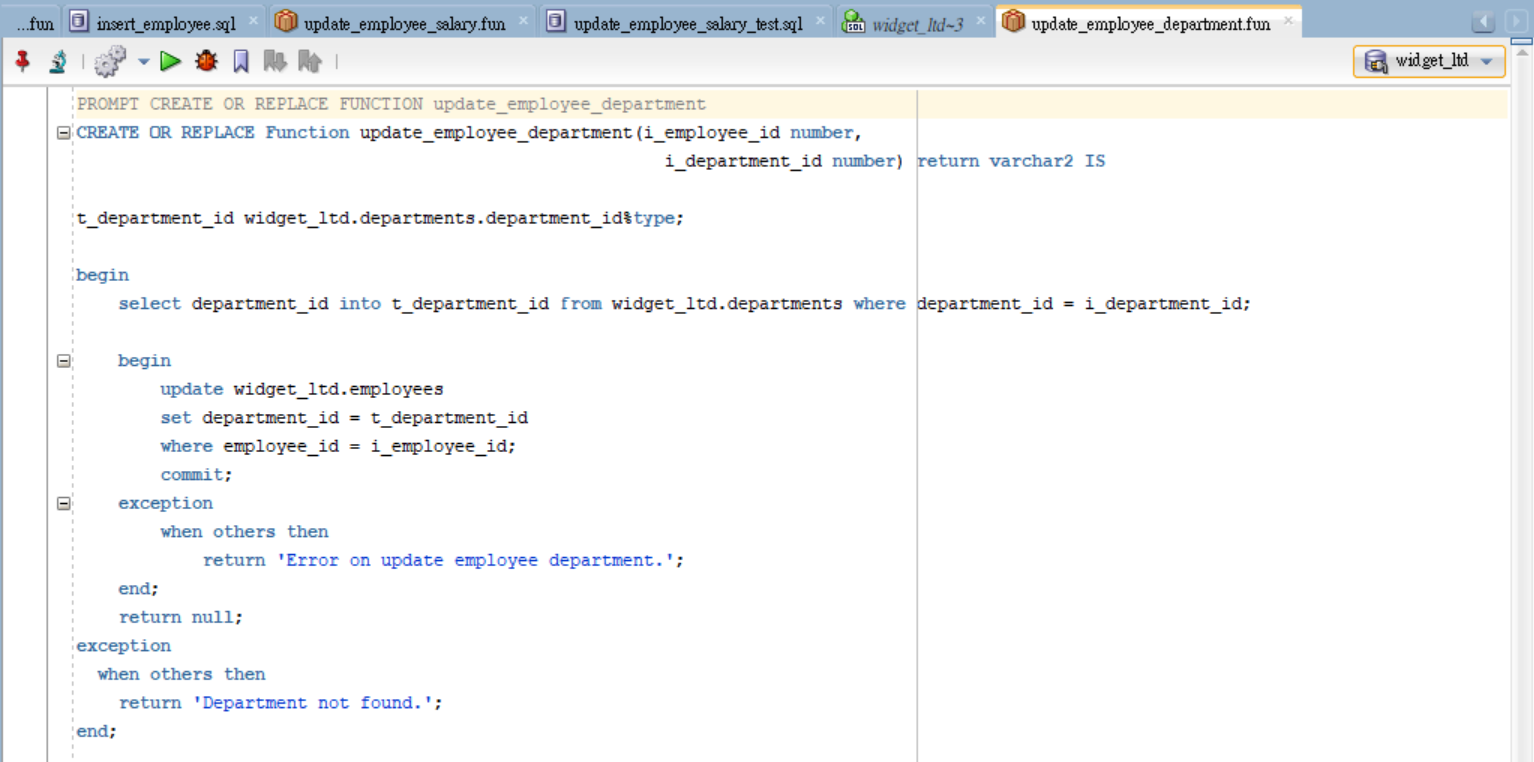


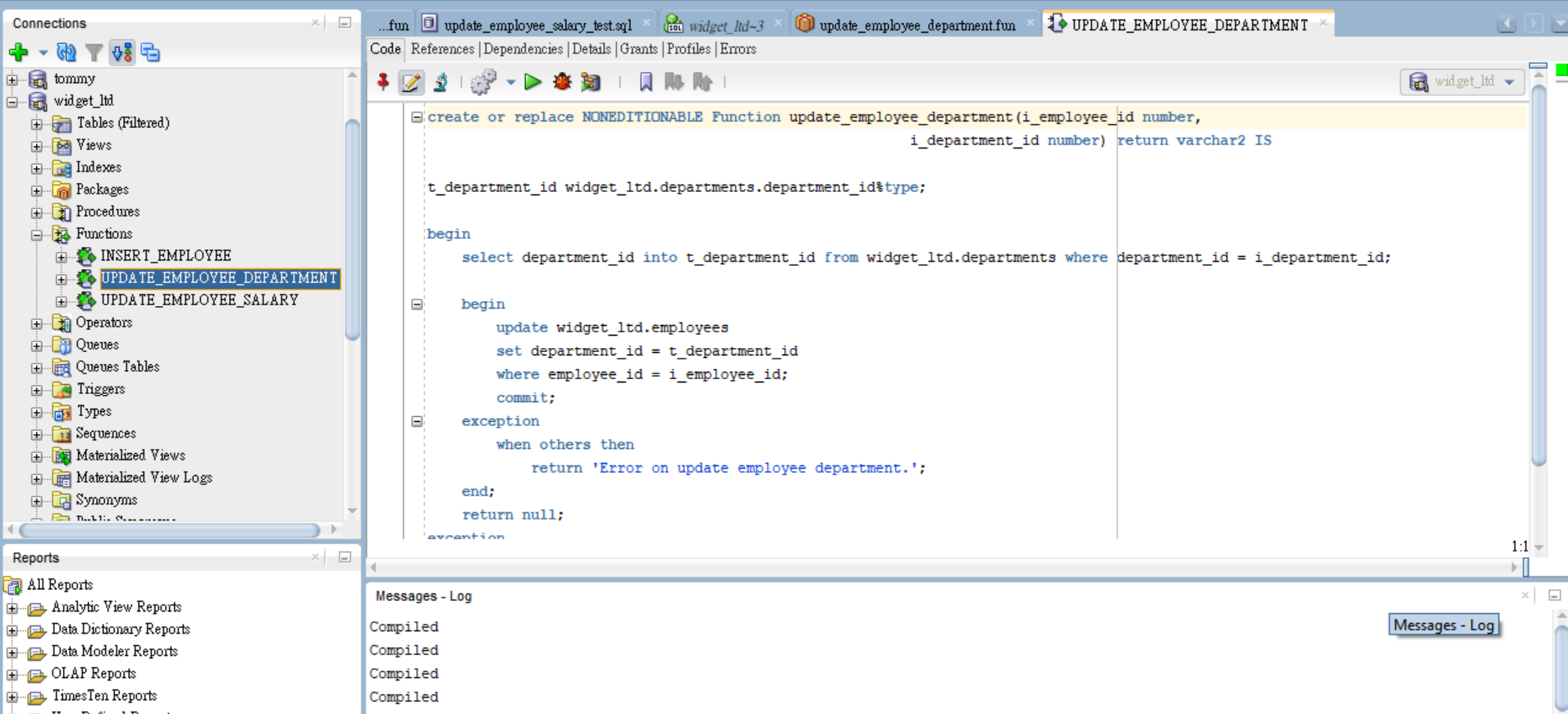




1. Compile the function for transfer of an Employee to a different Department

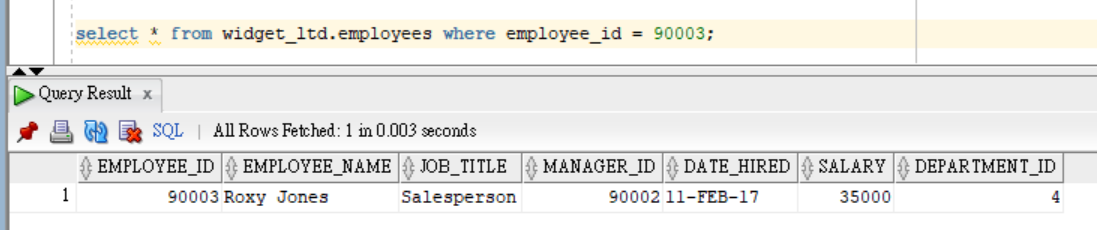
***update\_employee\_department.fun***





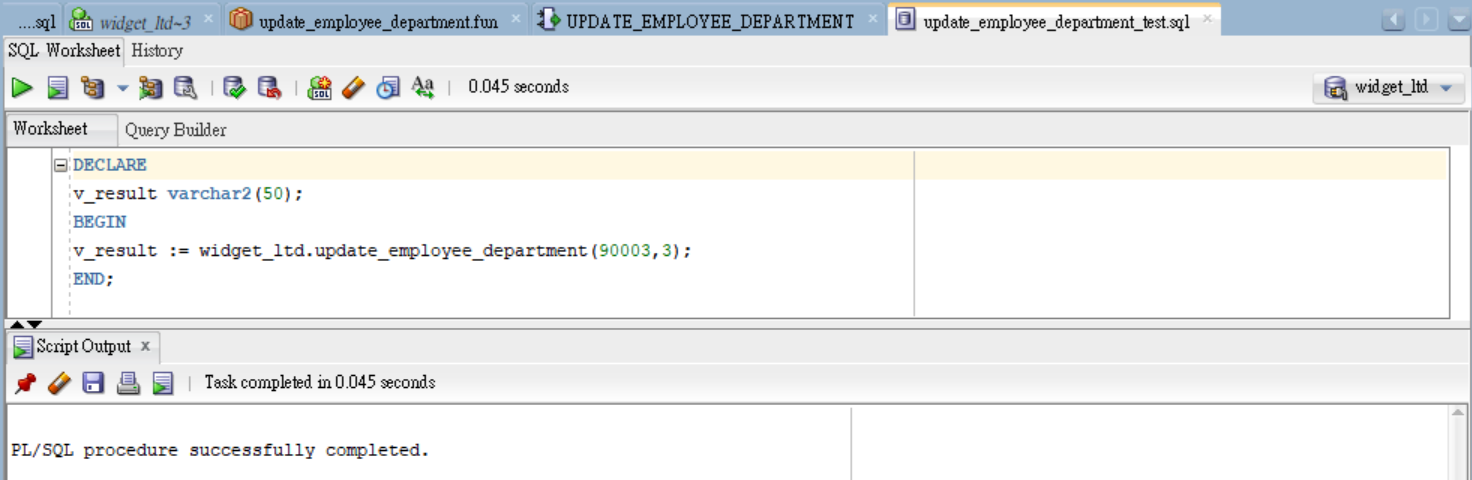
Test the department update function

Before department update

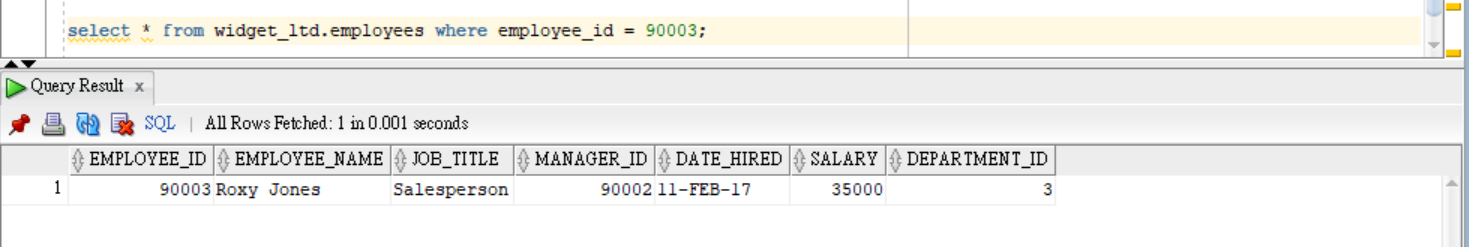


Update department

***update\_employee\_department\_test.sql***

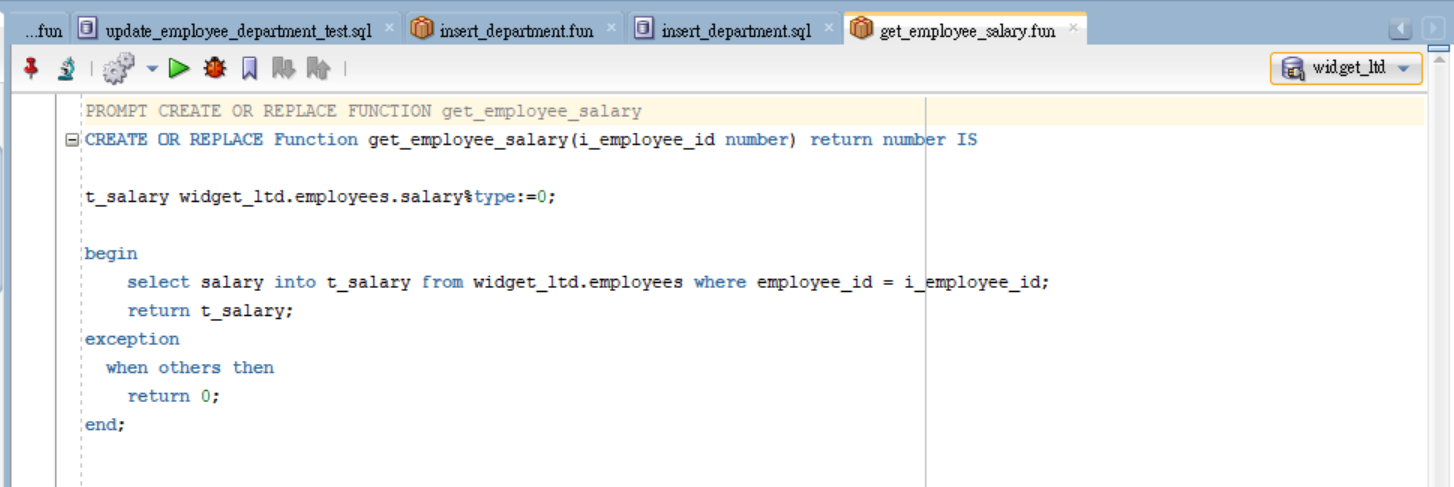


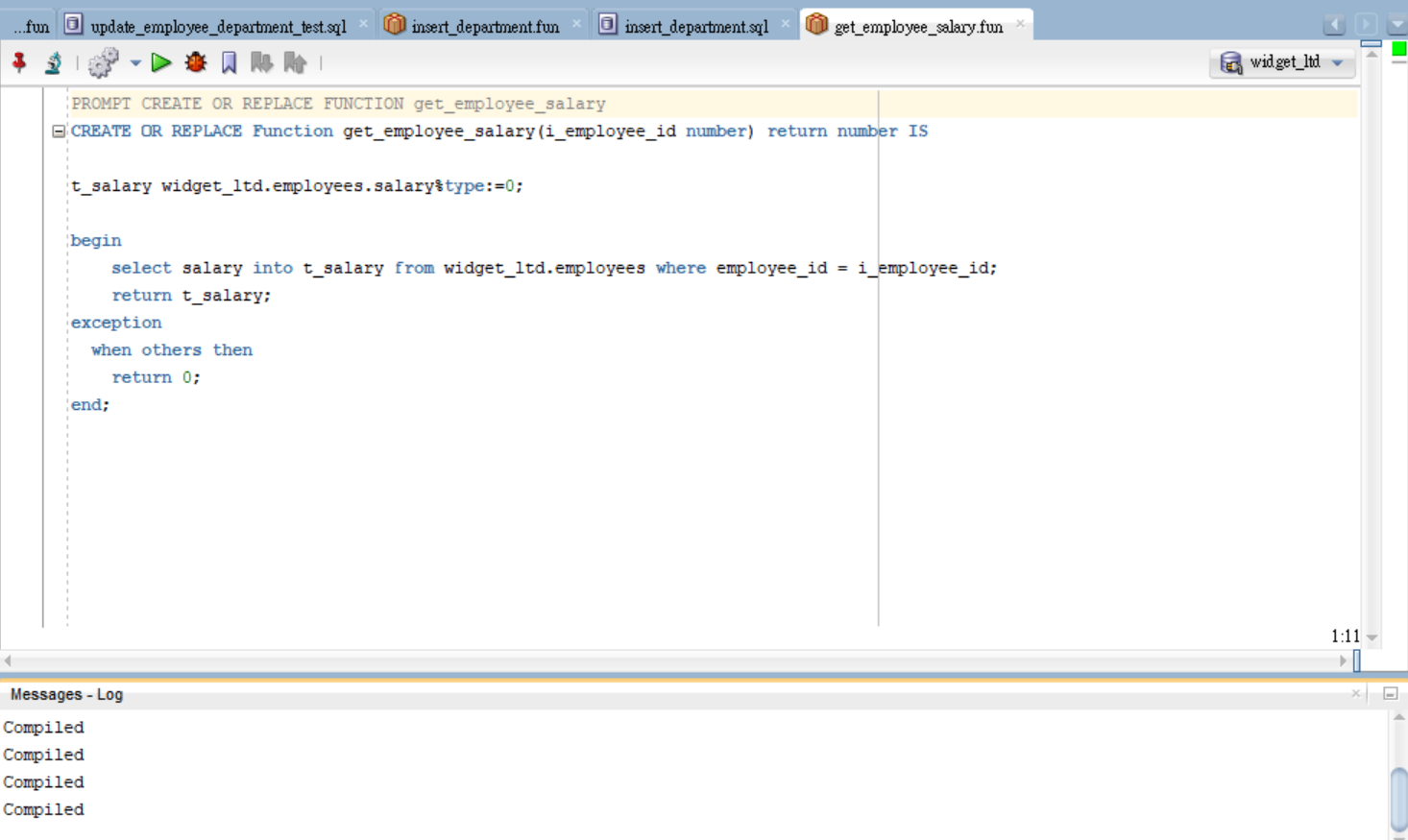
After department updated



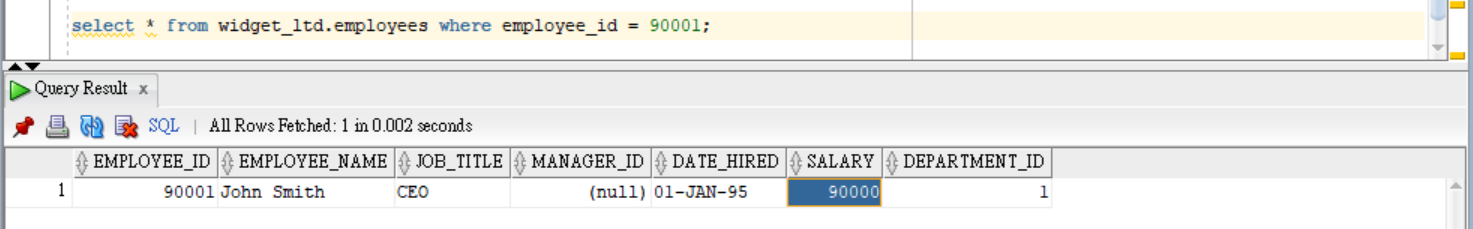
1. Compile the function for return the Salary of an Employee

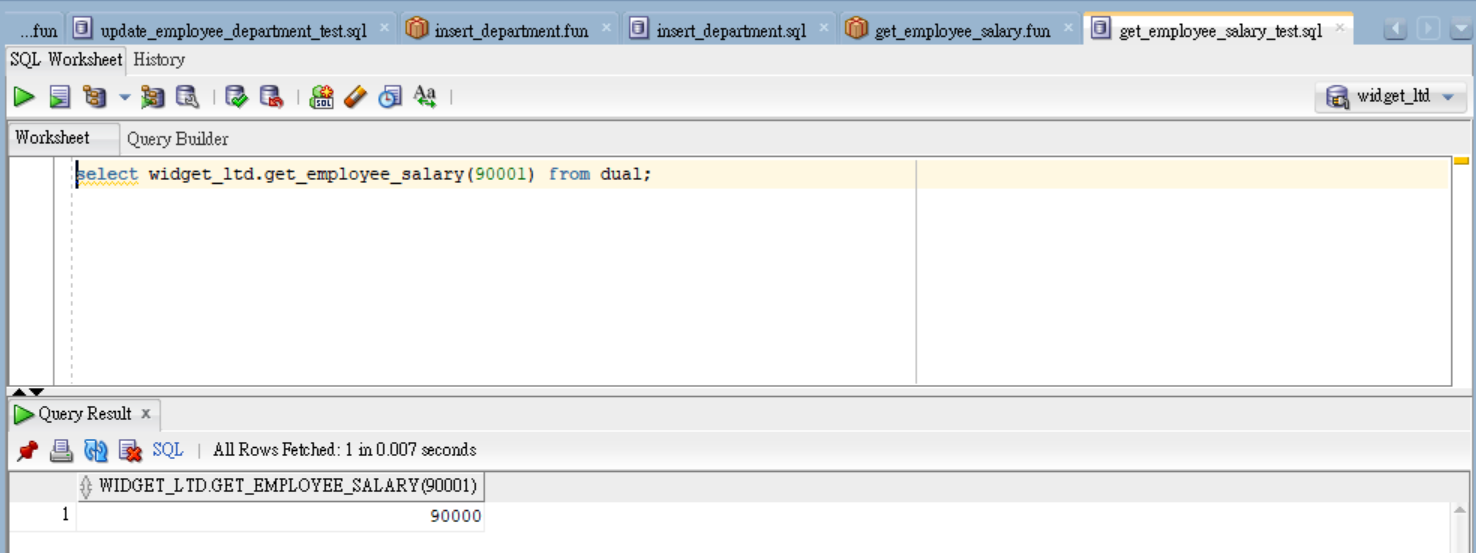
***get\_employee\_salary.fun***





Test the get salary function

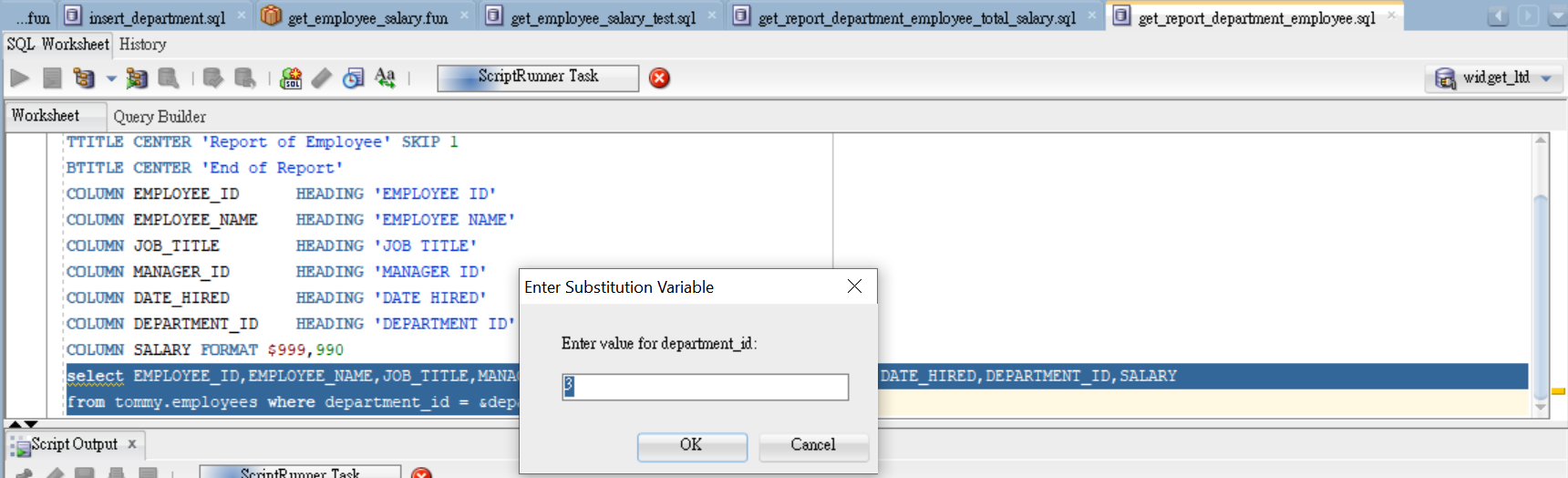


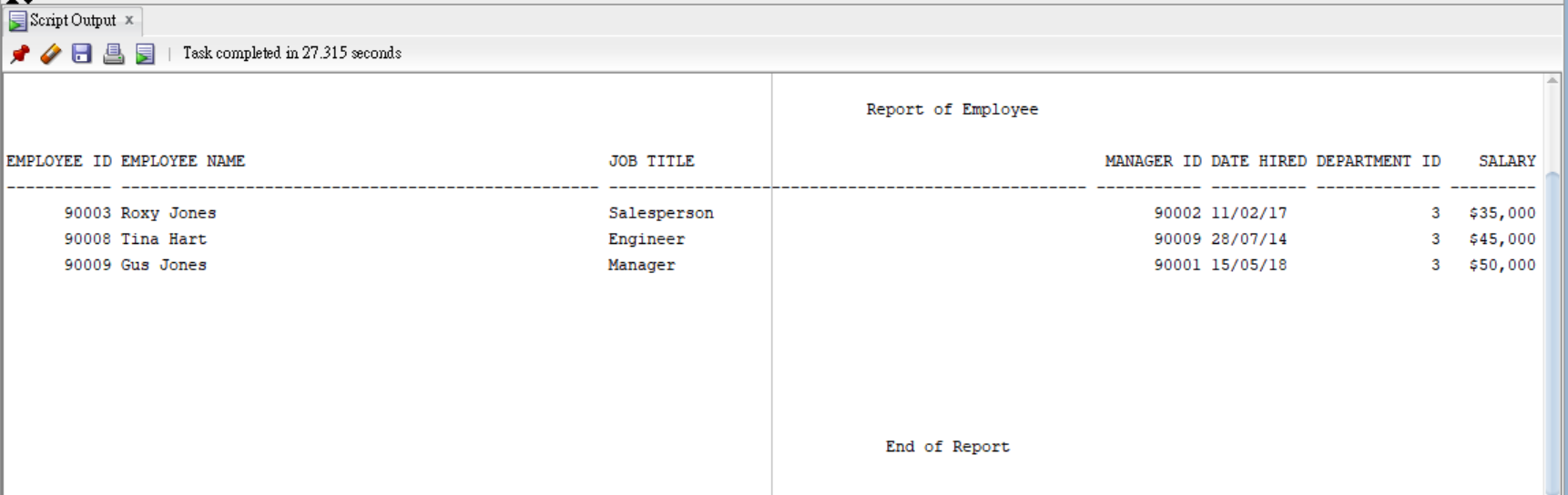


1. Report shows all Employees of a Department

***get\_report\_department\_employee.sql***







1. Report shows the total of Employee Salary for a Department

***get\_report\_department\_employee\_total\_salary.sql***

