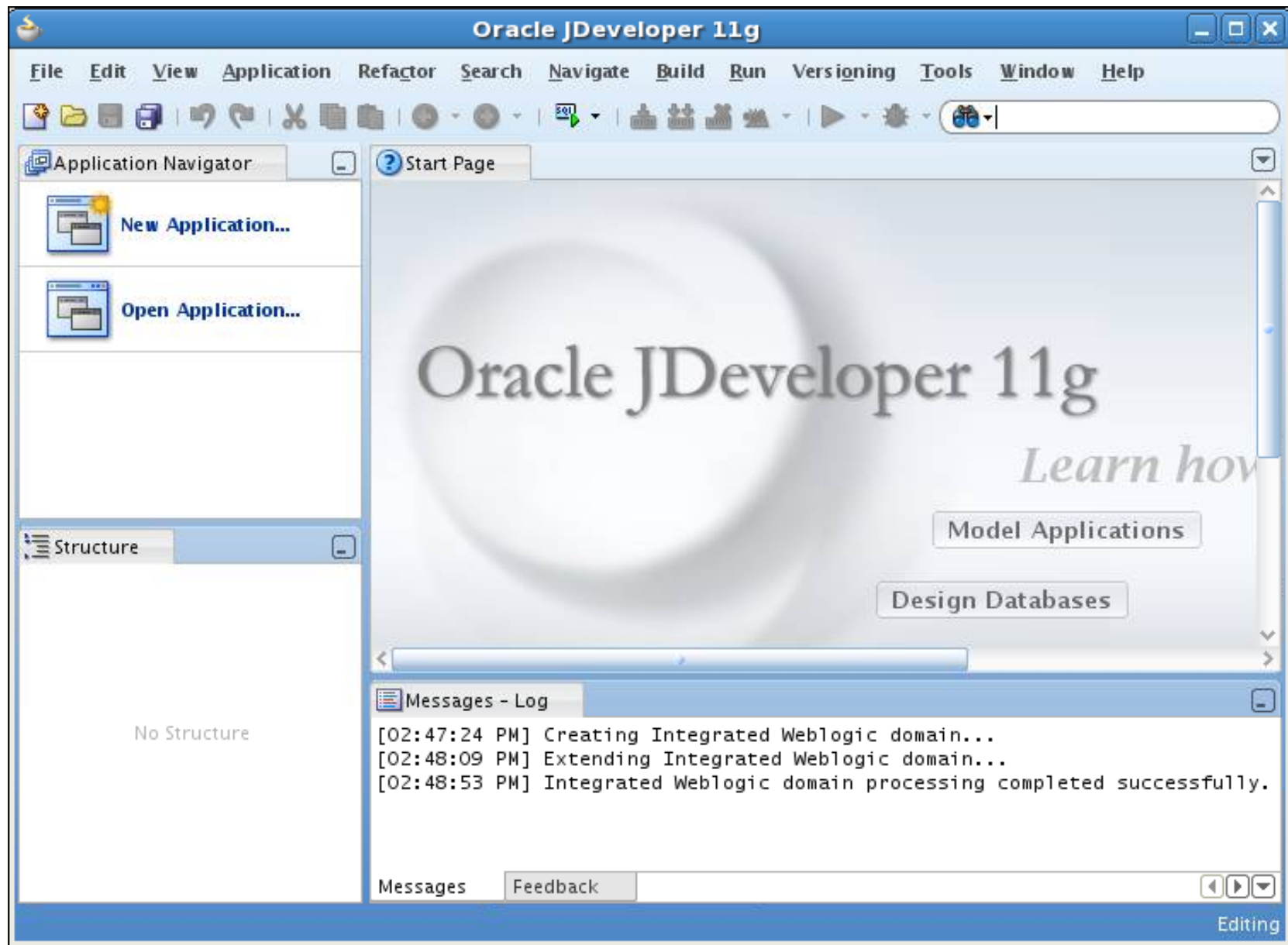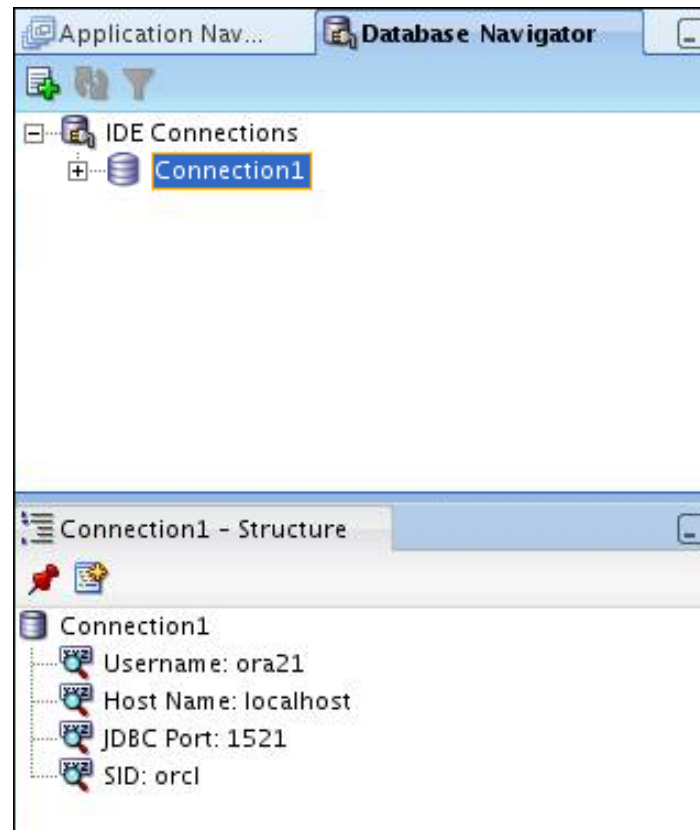# Using JDeveloper

Objectives

After completing this appendix, you should be able to do the following:

- List the key features of Oracle JDeveloper
- Create a database connection in JDeveloper
- Manage database objects in Jdeveloper
- Use JDeveloper to execute SQL Commands
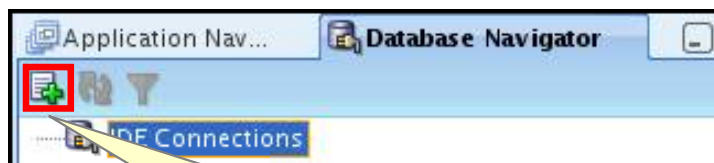- Create and run PL/SQL Program Units

ORACLE

Oracle JDeveloper

ORACLE

Database Navigator

Copyright © 2009, Oracle. All rights reserved.

ORACLE

Creating a Connection

Create Database Connection

Choose an application from the list to create a database connection owned by and deployed with that application. Choose IDE Connections to create a connection that can be added to any application.

Create Connection In: IDE Connections

Connection Name: Connection1

Connection Type: Oracle (JDBC)

Username: ora21   Role:

Password: •••••   ☑ Save Password

– Oracle (JDBC) Settings

☐ Enter Custom JDBC URL

Driver: thin

Host Name: localhost   JDBC Port: 1521

◉ SID: orcl

○ Service Name: XE

Test Connection

Success!

Help   OK   Cancel

1 Click the New Connection icon in the Database Navigator.

2 In the Create Database Connection window, enter the username, password and the SID.

3 Test the connection.

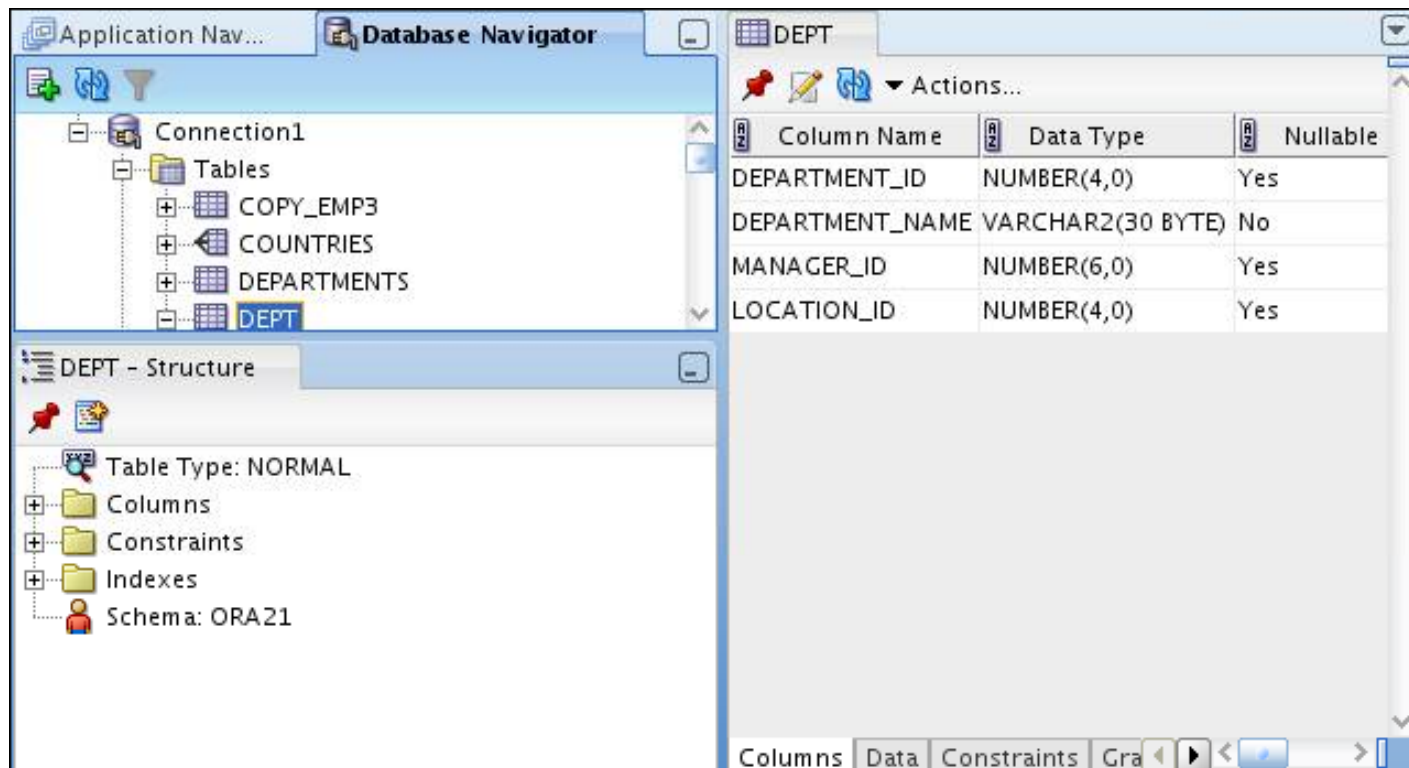**4** Click OK.

Application Nav...   Database Navigator
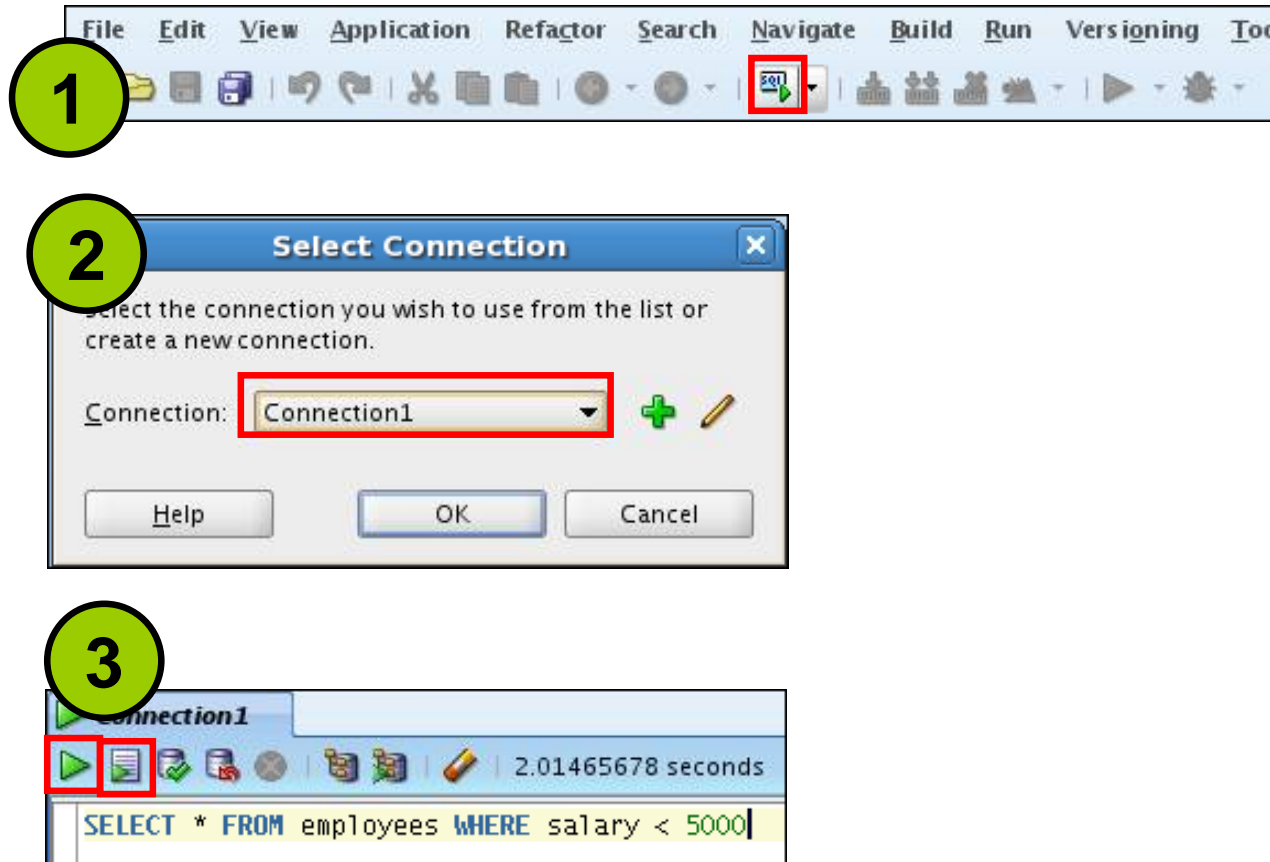
IDE Connections

ORACLE

Browsing Database Objects
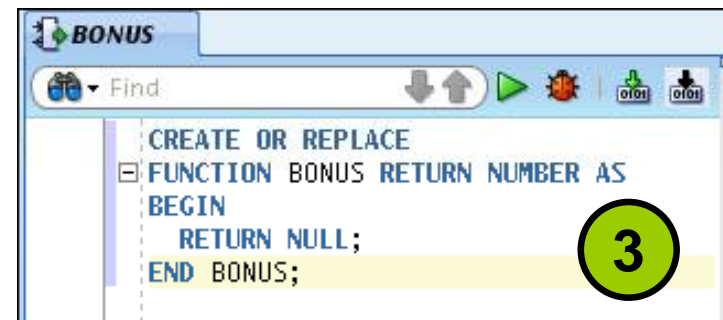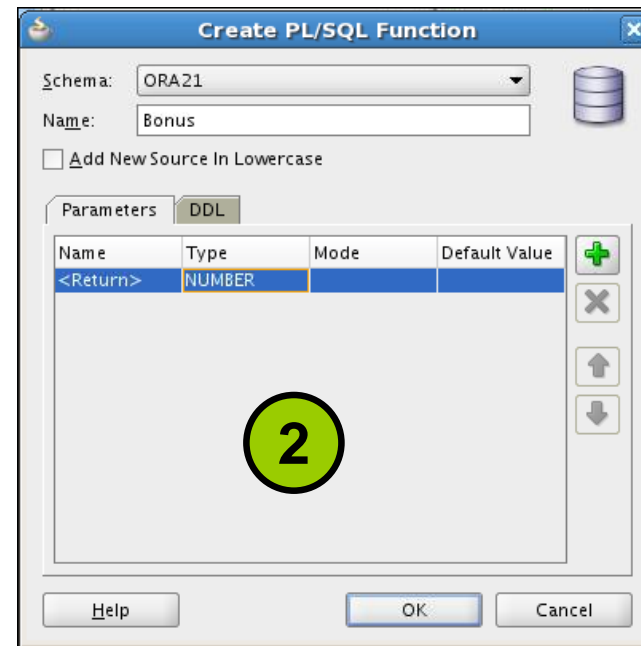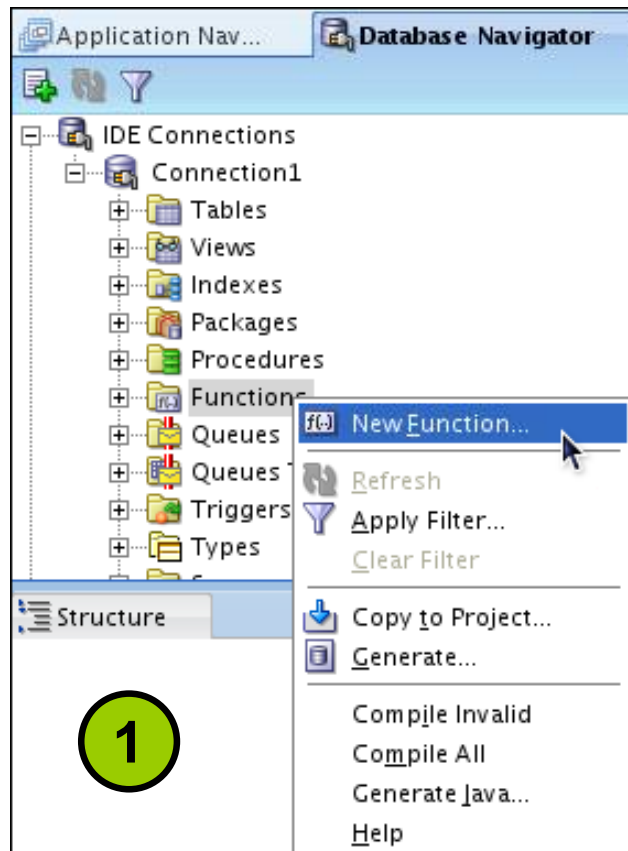
Use the Database Navigator to:

- Browse through many objects in a database schema
- Review the definitions of objects at a glance

ORACLE

Executing SQL Statements

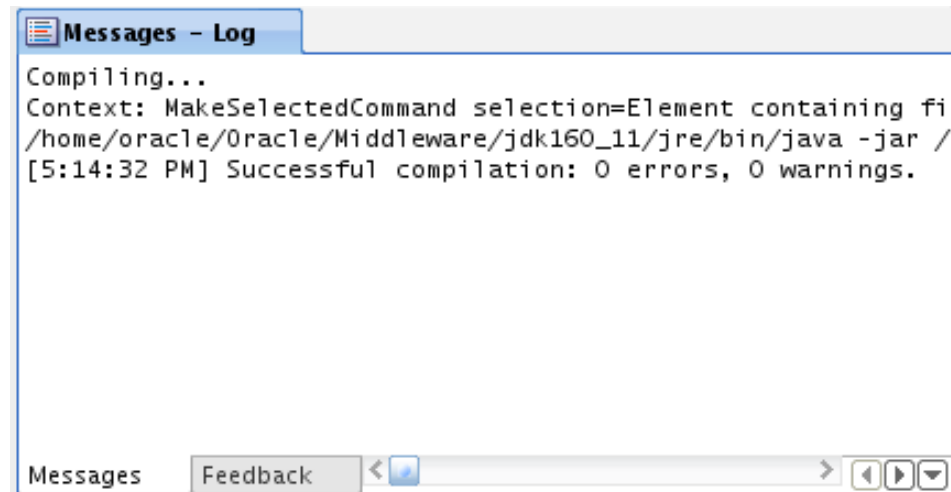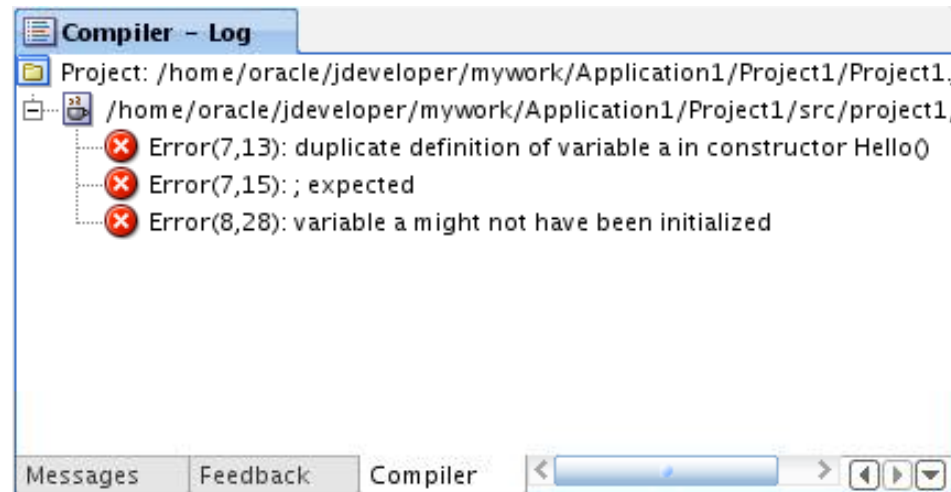Copyright © 2009, Oracle. All rights reserved.

ORACLE

Creating Program Units

Skeleton of the function

Copyright © 2009, Oracle. All rights reserved.

ORACLE

Compiling

Messages – Log

```
Compiling...
Context: MakeSelectedCommand selection=Element containing fi
/home/oracle/Oracle/Middleware/jdk160_11/jre/bin/java -jar /
[5:14:32 PM] Successful compilation: 0 errors, 0 warnings.
```

Messages   Feedback
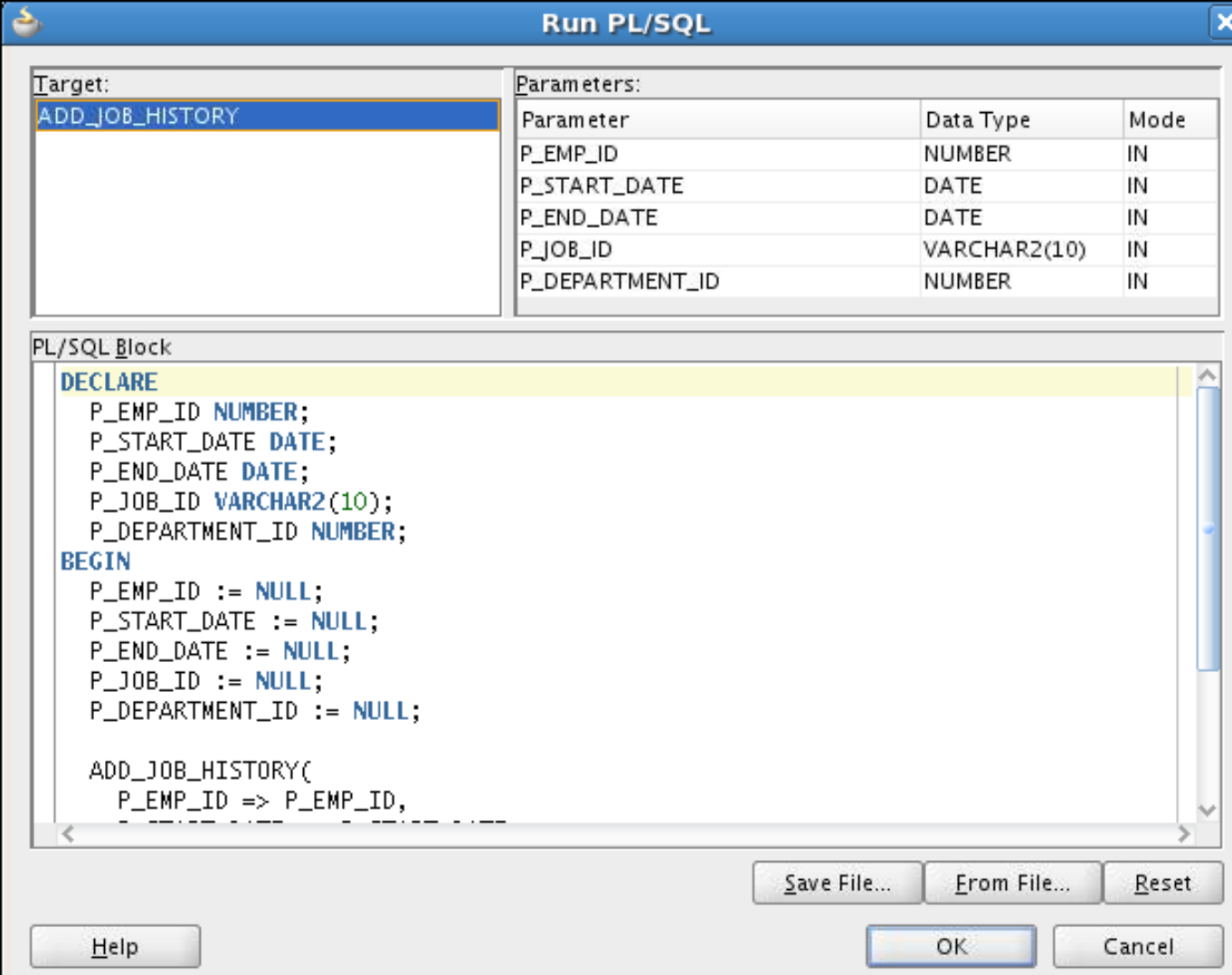
Compilation with errors

Compiler – Log

```
Project: /home/oracle/jdeveloper/mywork/Application1/Project1/Project1.
  /home/oracle/jdeveloper/mywork/Application1/Project1/src/project1.
    Error(7,13): duplicate definition of variable a in constructor Hello()
    Error(7,15): ; expected
    Error(8,28): variable a might not have been initialized
```

Messages   Feedback   Compiler

Compilation without errors

ORACLE

Running a Program Unit
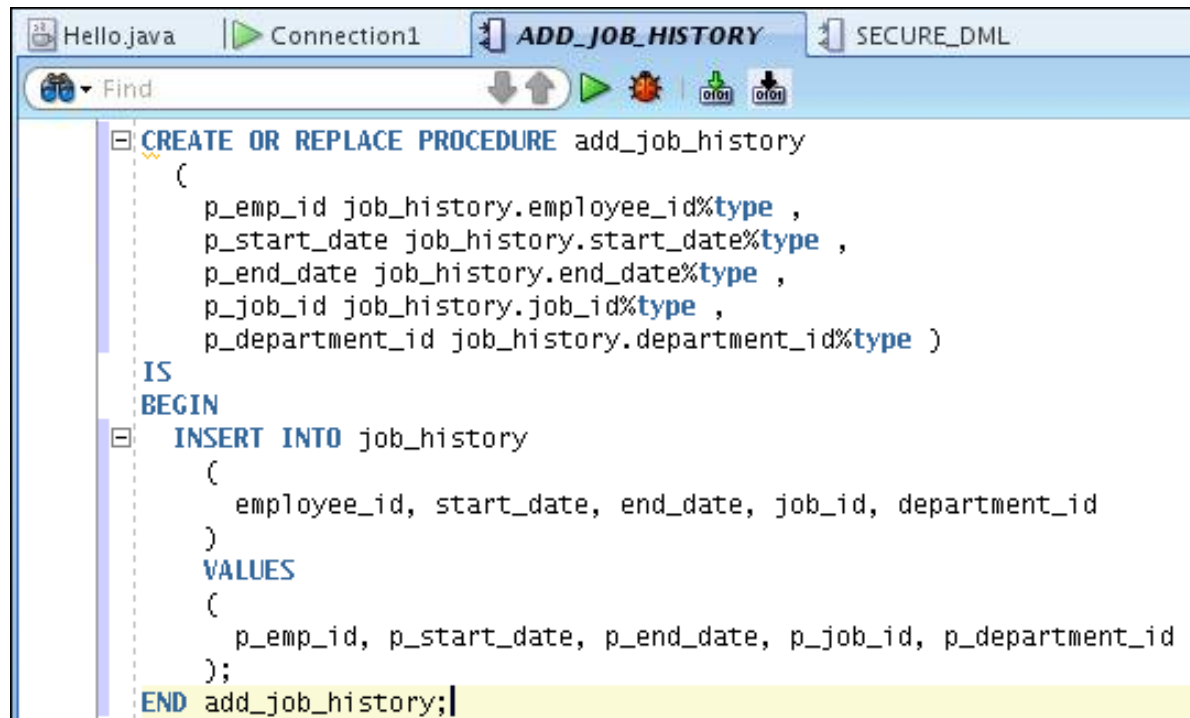
ORACLE

Dropping a Program Unit

Structure Window
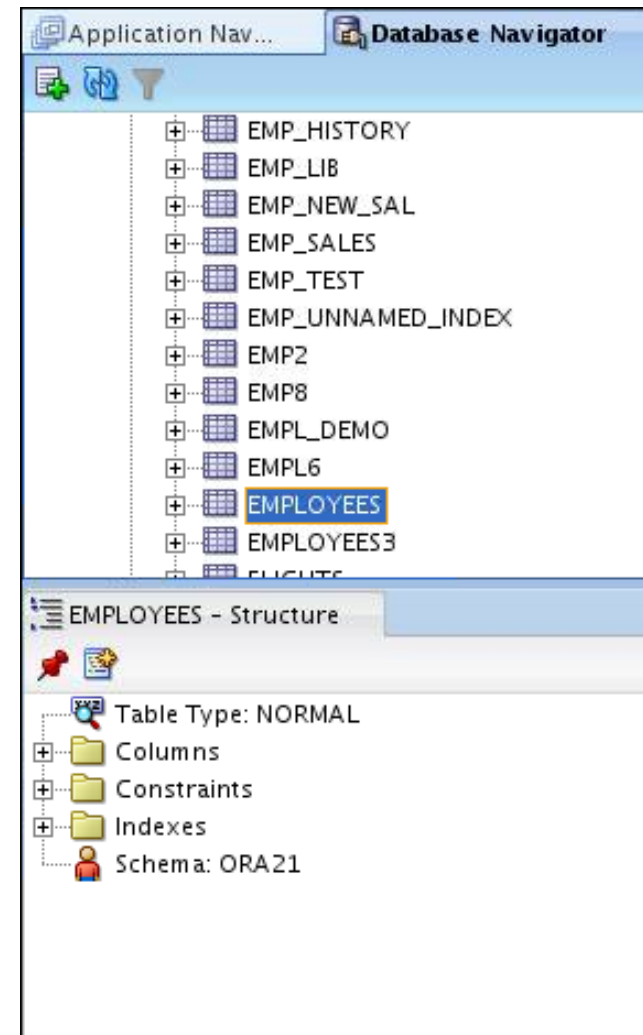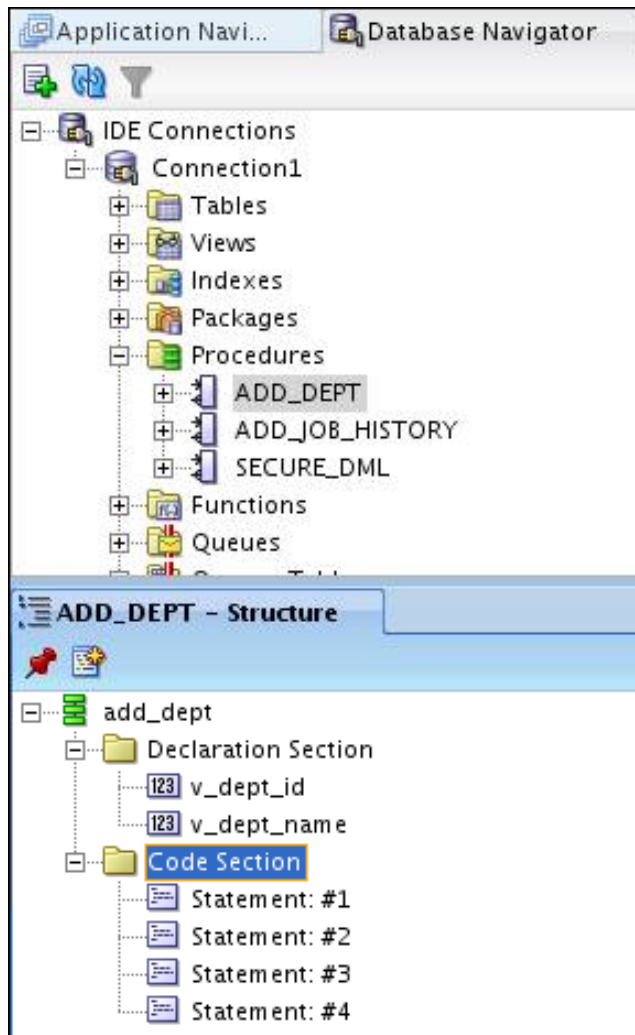
Copyright © 2009, Oracle. All rights reserved.

ORACLE

Editor Window

ORACLE

Application Navigator
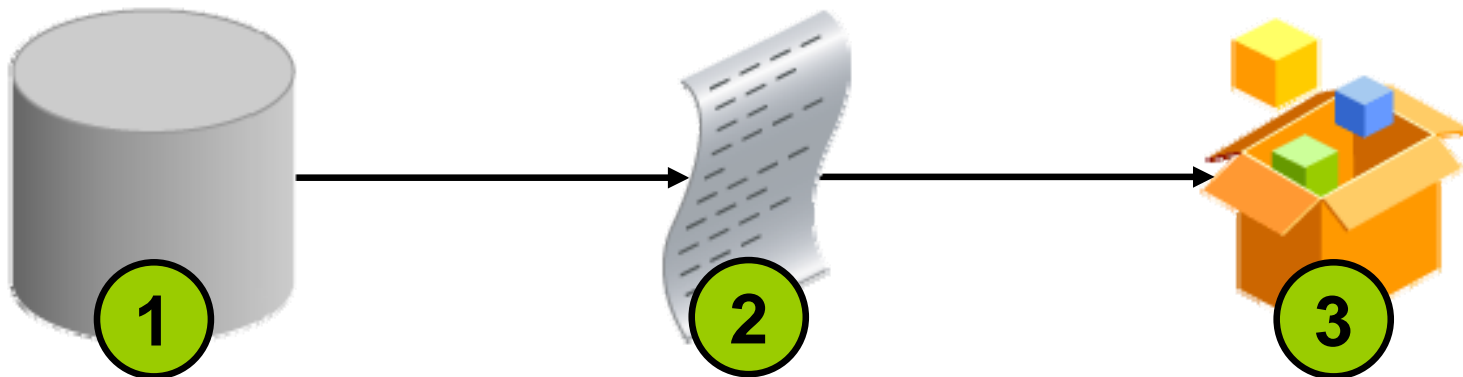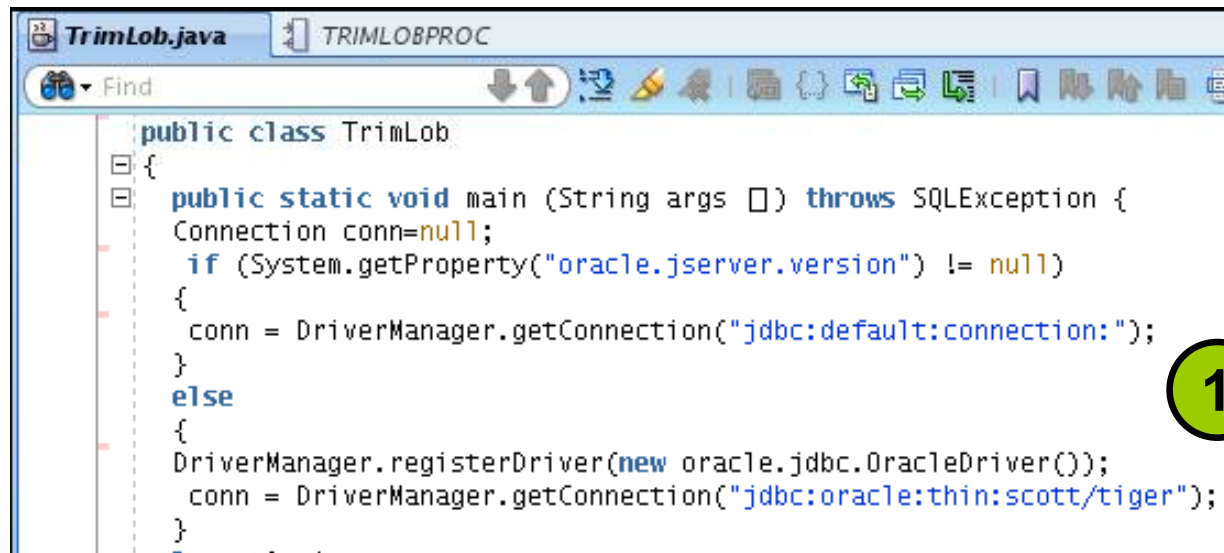
ORACLE

Deploying Java Stored Procedures

Before deploying Java stored procedures, perform the following steps:

1. Create a database connection.
2. Create a deployment profile.
3. Deploy the objects.

ORACLE

Publishing Java to PL/SQL


```
public class TrimLob
{
  public static void main (String args []) throws SQLException {
    Connection conn=null;
    if (System.getProperty("oracle.jserver.version") != null)
    {
      conn = DriverManager.getConnection("jdbc:default:connection:");
    }
    else
    {
      DriverManager.registerDriver(new oracle.jdbc.OracleDriver());
      conn = DriverManager.getConnection("jdbc:oracle:thin:scott/tiger");
    }
```
1

```
CREATE OR REPLACE PROCEDURE TRIMLOBPROC
as language java
  name 'TrimLob.main(java.lang.String[])';
/
```
2

ORACLE

How Can I Learn More About JDeveloper 11*g* ?

Topic	Web site
Oracle JDeveloper Product Page	http://www.oracle.com/technology/products/jdev/index.html
Oracle JDeveloper 11*g* Tutorials	http://www.oracle.com/technology/obe/obe11jdev/11/index.html
Oracle JDeveloper 11*g* Product Documentation	http://www.oracle.com/technology/documentation/jdev.html
Oracle JDeveloper 11*g* Discussion Forum	http://forums.oracle.com/forums/forum.jspa?forumID=83

ORACLE

Summary

In this appendix, you should have learned how to use JDeveloper to do the following:

- List the key features of Oracle JDeveloper
- Create a database connection in JDeveloper
- Manage database objects in JDeveloper
- Use JDeveloper to execute SQL Commands
- Create and run PL/SQL Program Units

ORACLE