

Practical Database Management System

Prepared By

Adnan Amin

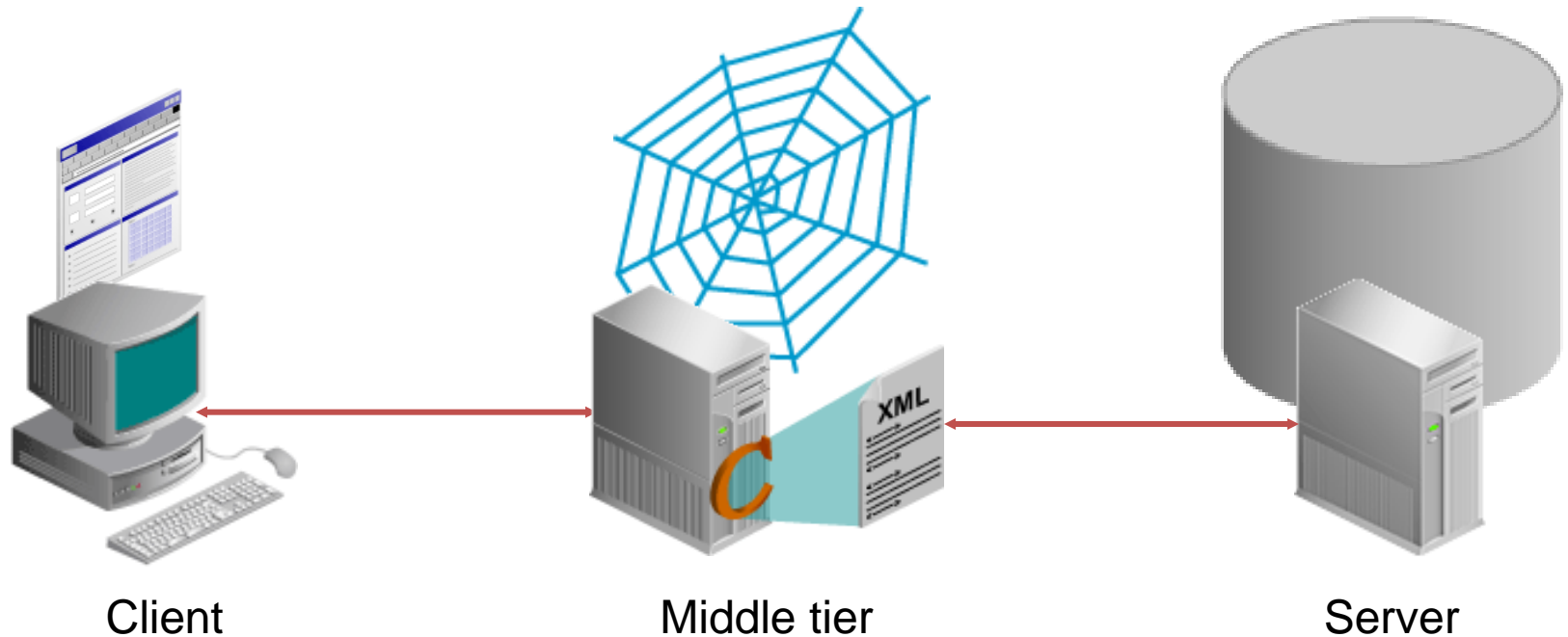
General Concept

To know about
Oracle 11g.

Overview

- Oracle Database 11g Focus Areas
- “g” Stands for?

Connecting to a Server



Multitier architecture shown

Oracle Database 11g: Focus Areas



Infrastructure
Grids

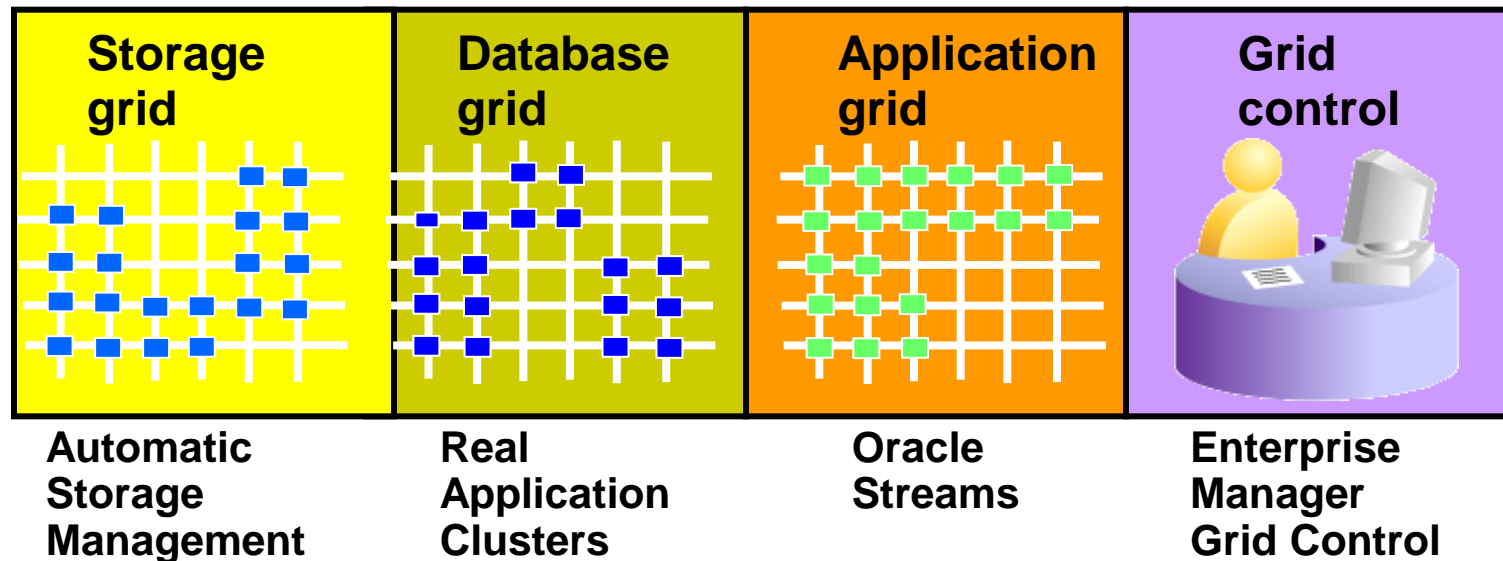
Information
Management

Application
Development

Oracle Database 11g:

“g” Stands for Grid

- Global Grid Forum (GGF)
- Oracle’s grid infrastructure:
 - Low cost
 - High quality of service
 - Easy to manage



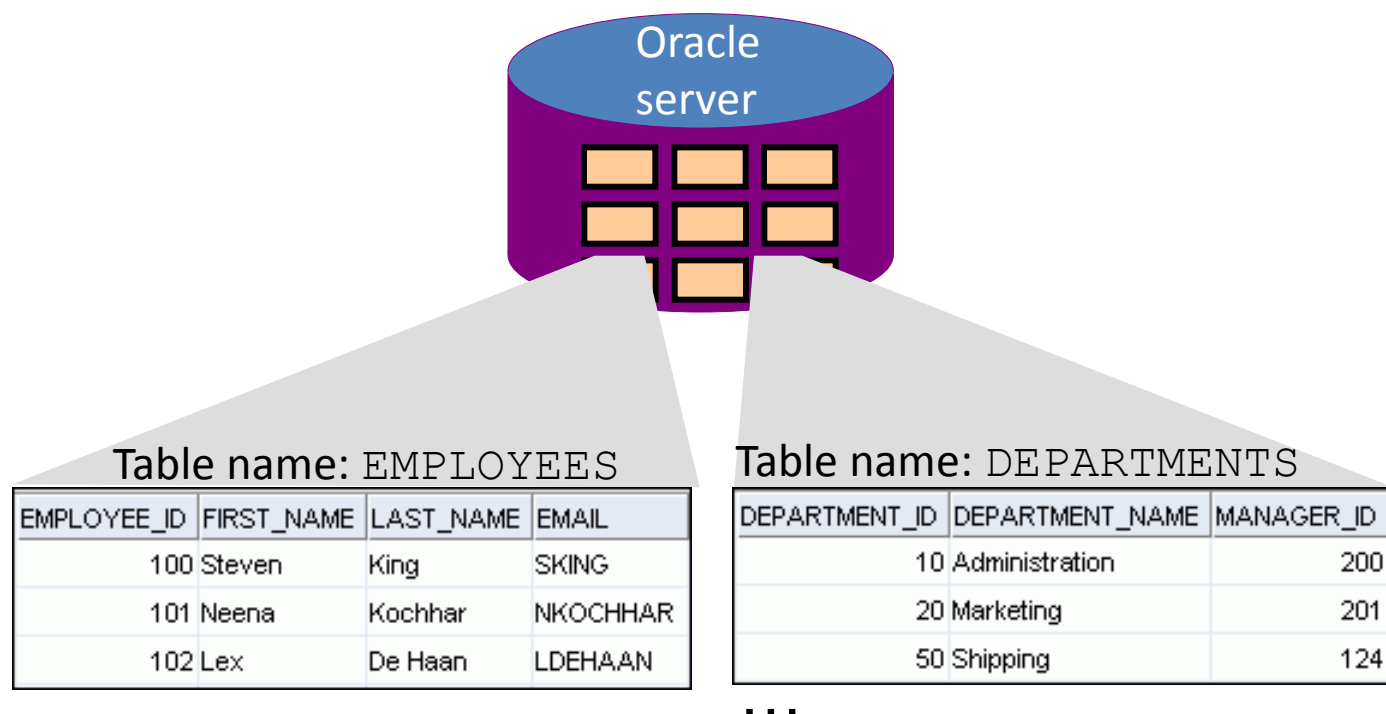
Relational and Object Relational Database Management Systems

- Relational model and object relational model
- User-defined data types and objects
- Fully compatible with relational database
- Supports multimedia and large objects
- High-quality database server features

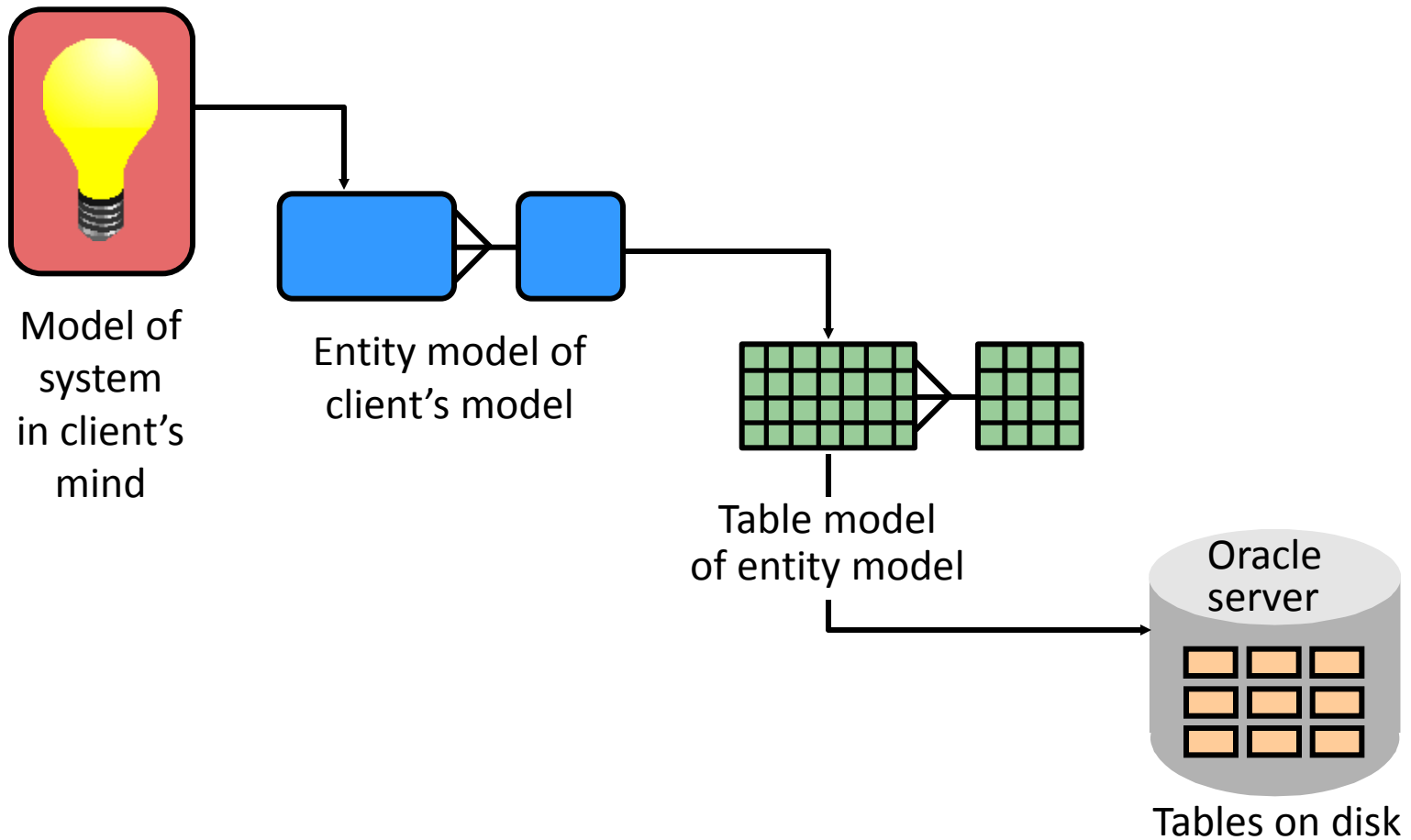


Definition of a Relational Database

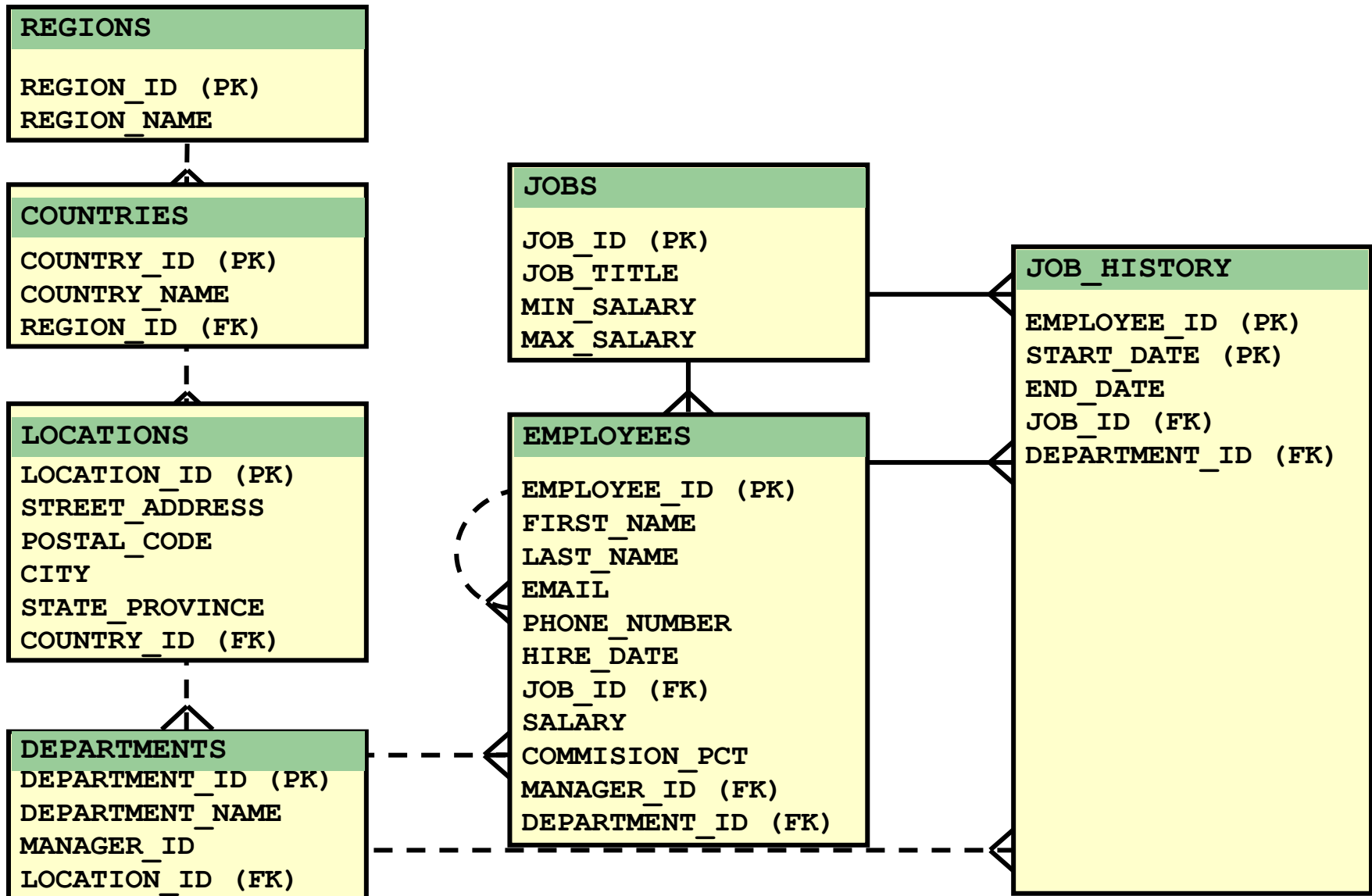
- A relational database is a collection of relations or two-dimensional tables.



Data Models

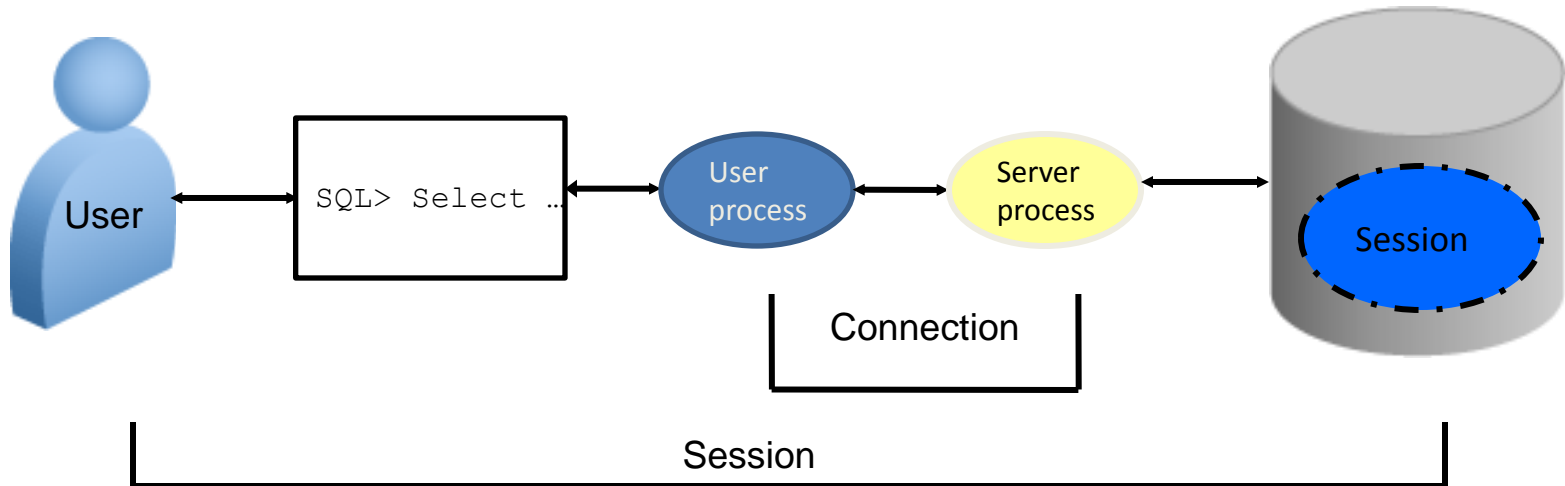


Course Examples: HR Sample Schema

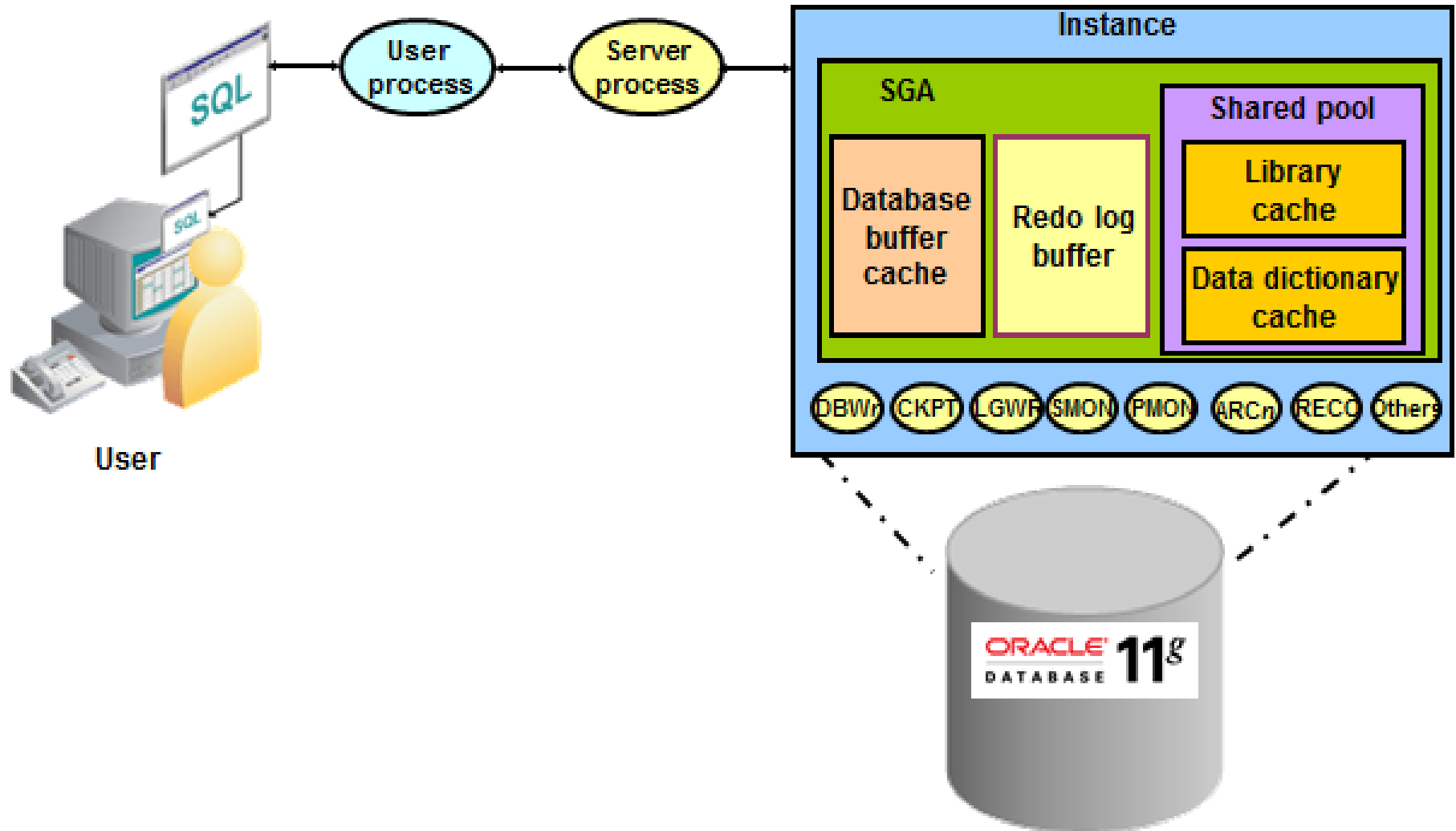


Connecting to the Database

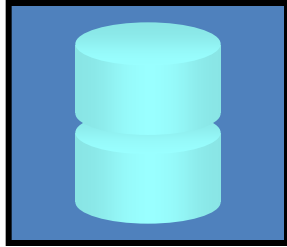
- **Connection:** Communication between a user process and an instance
- **Session:** Specific connection of a user to an instance through a user process



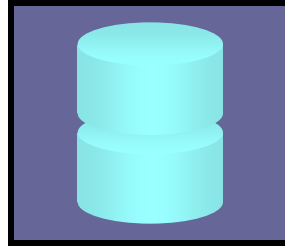
Interacting with an Oracle Database



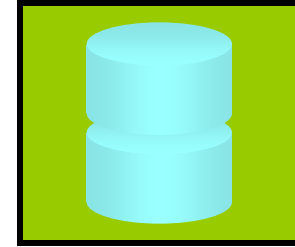
Database Storage Architecture



Control files



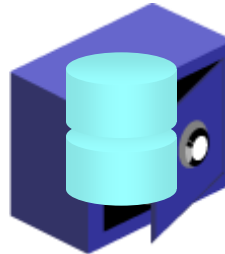
Data files



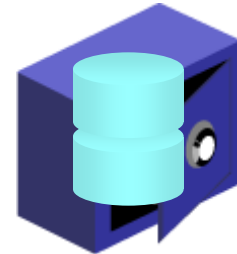
Online redo log files



Parameter file



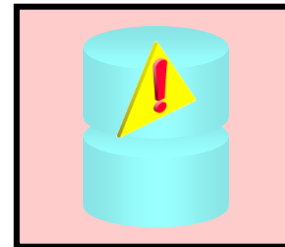
Backup files



Archived redo log files



Password file



Alert log and trace files

INSTALLATION

Installing Oracle 11g

- To download the Oracle 11g Setup files, follow this link.
 - <http://www.oracle.com/technology/software/products/database/index.html>
- Must create an account on oracle website to download the oracle 11g.
- Require space in C:\ “300MB” & 3.27 GB where you want to install “Enterprise edition”.
- Minimum RAM “1 GB”.

Make sure to download both files (file 1 and file 2)

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COMMUNITY








Oracle Database Software Downloads

You must accept the [OTN License Agreement](#) to download this software.

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Oracle Database 11g Release 2 Standard Edition, Standard Edition One, and Enterprise Edition

(11.2.0.1.0)

 Microsoft Windows (32-bit)	File 1 , File 2 (2GB) See All
 Microsoft Windows (x64)	File 1 , File 2 (2GB) See All
 Linux x86	File 1 , File 2 (2GB) See All
 Linux x86-64	File 1 , File 2 (2GB) See All
 Solaris (SPARC) (64-bit)	File 1 , File 2 (2GB) See All
 Solaris (x86-64)	File 1 , File 2 (2GB) See All
 HP-UX Itanium	File 1 , File 2 (2GB) See All

Learn More

- [Oracle Database 11g homepage](#)
- [Oracle Database documentation](#)

Important

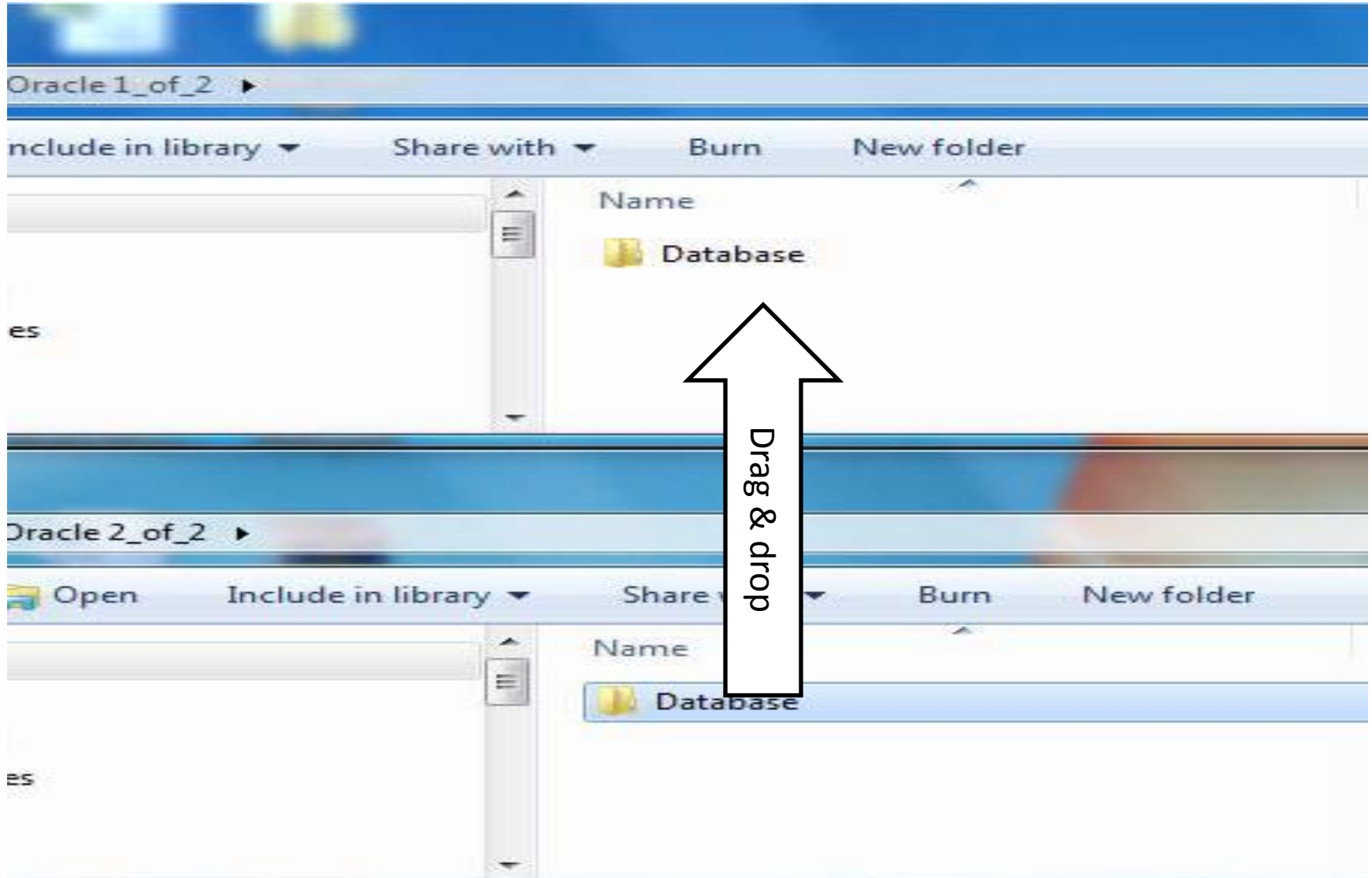
- After both parts are downloaded successfully, unzip using WinZip, or WinRAR, **unzip both files to the same directory.**

Or

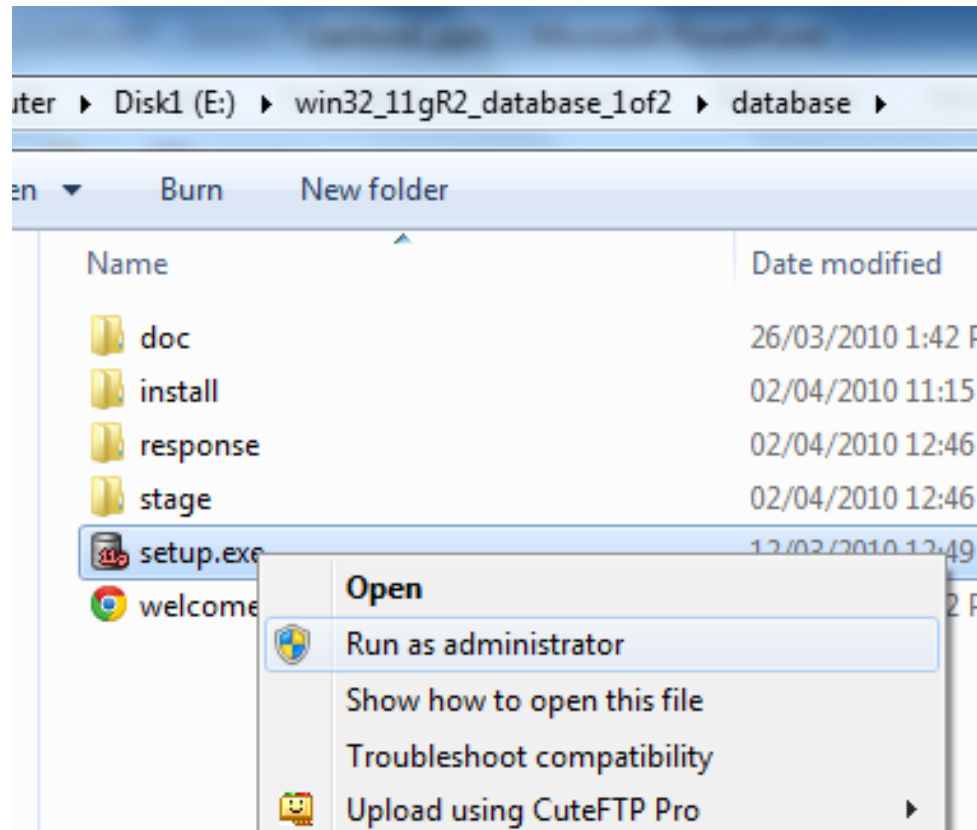
- You will have two directories, each with a directory called “Database.” Drag the database directory from one folder into the other.

(merge)

When you'll be asked "you want to merge the two folders", click yes.



Go to setup.exe, right click to choose “Run as Administrator” and start installing Oracle 11g on your machine.



Click the next button, and click yes. Ignore the warning.

The screenshot shows the Oracle Database 11g Release 2 Installer window, titled "Oracle Database 11g Release 2 Installer - Installing database - Step 1 of 8". The window has a blue title bar and standard Windows window controls. The main content area is titled "Configure Security Updates" and features the Oracle 11g logo in the top right corner. On the left, a vertical navigation pane lists the installation steps: "Configure Security Updates" (selected), "Installation Option", "System Class", "Typical Installation", "Prerequisite Checks", "Summary", "Install Product", and "Finish". The main area contains the following text and form elements:

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:

Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

At the bottom of the window, there are four buttons: "Help", "< Back", "Next >" (highlighted with a yellow border), "Finish", and "Cancel".

Enter the password of your choice in both the “Administrative Password” and “Confirm Password” fields. The user names are already predefined as SYS, SYSTEM or SYSMAN.

Oracle Database 11g Release 2 Installer - Installing database - Step 4 of 8

Typical Install Configuration

Perform full Database installation with basic configuration.

Configure Security Updates
Installation Option
System Class
Typical Installation
Prerequisite Checks
Summary
Install Product
Finish

Oracle base: C:\app\chen Browse

Software location: C:\app\chen\product\11.2.0\dbhome_1 Browse

Database file location: C:\app\chen\oradata Browse

Database edition: Enterprise Edition (3.27GB)

Character Set: Default (WE8MSWIN1252)

Global database name: orcl

Administrative password:

Confirm Password:

Help < Back Next > Finish Cancel

Perform Prerequisite Checks

ORACLE[®] 11g
DATABASE

Configure Security Updates

Installation Option

System Class

Typical Installation

Prerequisite Checks

Summary

Install Product

Finish

Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.

0%

Preparing to perform checks...

Help

< Back

Next >

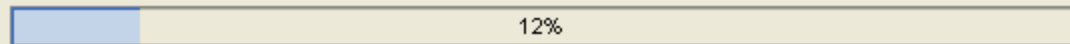
Finish

Cancel

Install Product

- Configure Security Updates
- Installation Option
- System Class
- Typical Installation
- Prerequisite Checks
- Summary
- Install Product**
- Finish

Progress



Extracting files to 'C:\app\chen\product\11.2.0\dbhome_1'.

Status

➤ Oracle Database installation	In Progress
✓ • Prepare	Succeeded
➤ • Copy files	In Progress
• Setup files	Pending
Oracle Database configuration	Pending

Details

Retry

Skip

ORACLE 11g
DATABASE
Manageability



Maximize Performance,
Availability, and
Productivity

Help

< Back

Next >

Finish

Cancel

