



Installing Oracle Software

DBA tasks

- The approach for designing, implementing, and maintaining an Oracle database involves the following tasks:
 - Evaluating the database server hardware
 - Installing the Oracle software
 - Planning the database and security strategy
 - Creating, migrating, and opening the database

Planning Your Installation

- Read the release notes
- Plan the installation
- Complete preinstallation tasks
- Install the software
- Complete postinstallation tasks
- Get started using Oracle Database

Oracle Database 10g Pre- installation Requirements

Requirement	Value
Physical memory (RAM)	256MB minimum; 512 MB recommended On Windows Vista, the minimum requirement is 512 MB
Virtual memory	Double the amount of RAM
Disk space	Basic Installation Type total: 2.04 GB Advanced Installation Types total: 1.94 GB
Video adapter	256colors
Processor	300MHz minimum On Windows Vista, the minimum requirement is 800 MHz

Installation Methods

- Basic
 - minimal user input
 - default installation method

- Advanced

Installation type

- **Enterprise Edition**
- **Standard Edition**
- **Personal Edition**
- **Custom**

End of installation

- **Configuration Complete**

- Note the URL for enterprise manager

- **Password Management**

- You can change the Oracle Database account that are locked for security reasons

Installation Types

- **Instant Client**
- **Administrator**
- **Runtime**
- **Custom**

The Burger King Case Study



Burger King DB project mission statement

The purpose of BK DB project is to maintain the data that is used & generated to support the fast food business for our client and to support decision making.

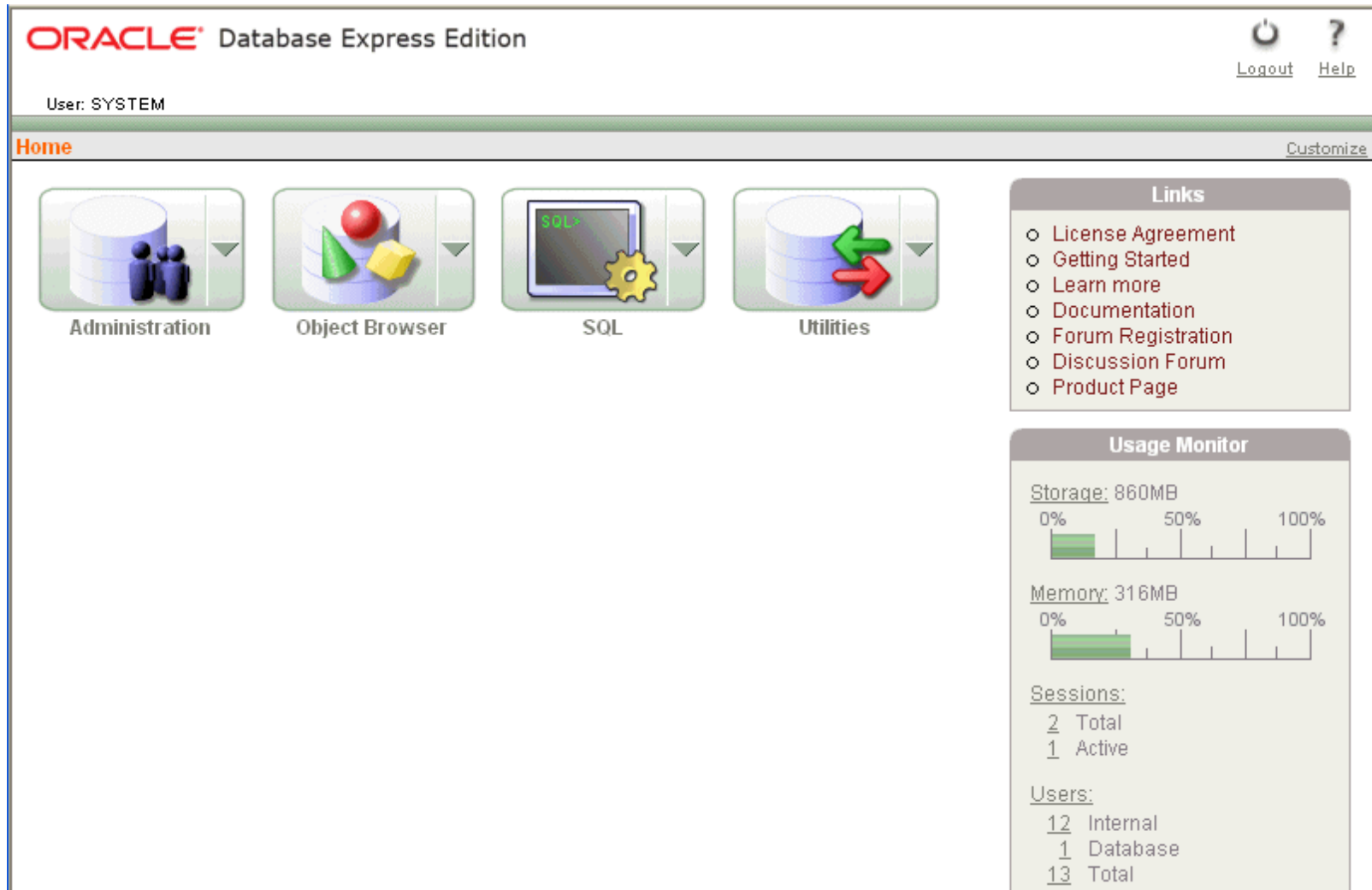
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- Burger King needs to create two table the MEAL table, which will contain the following columns:
MealId, MealName, MealPrice.
 - And the CLIENT table, which will contain the following columns:
ClientId, MealId, Total.

Logging in as the Database Administrator

- The first thing you need to do is to log in as the Oracle Database XE Administrator. Follow these steps:
- Open the Database Home Page login window:
 - On Windows, from the **Start** menu, select **Programs** (or **All Programs**), then **Oracle Database 10g Express Edition**, and then **Go To Database Home Page**.

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- At the Database Home Page login window, enter the following information:
 - **Username:** Enter "system" for the user name.
 - **Password:** Enter the password that was specified when Oracle Database XE was installed.
 - Click **Login**.

Oracle Database home page



ORACLE Database Express Edition

Logout Help

User: SYSTEM

Home Customize

Administration **Object Browser** **SQL** **Utilities**

Links

- License Agreement
- Getting Started
- Learn more
- Documentation
- Forum Registration
- Discussion Forum
- Product Page

Usage Monitor

Storage: 860MB
0% 50% 100%

Memory: 316MB
0% 50% 100%

Sessions:
2 Total
1 Active

Users:
12 Internal
1 Database
13 Total

Create user account

- To create a new schema:
 - Make sure you are still logged on as the database administrator, as described in the previous slides.
 - Click the **Administration** icon, and then click **Database Users**.
 - Click the **Create** icon to create new schema.

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- ❑ Under Manage Database User, enter the following settings:
 - ❑ **Password** and **Confirm Password**: Enter "br" for the password.
 - ❑ **Account Status**: Select **Unlocked**.
 - ❑ **Roles**: Ensure that both **CONNECT** and **RESOURCE** are enabled.
 - ❑ Click **create**.

Logging in as the “br” User Account

- Log out from the database administrator account by clicking **Logout** in the upper right corner of the Database Home Page.
- In the window, click **Login**.
- In the Login window, enter br for both the user name and password.
- Click **Login**.
- The Database Home Page appears.

Creating Tables

- To create table:
 - On the Database Home Page, click the **Object Browser** icon.
 - Click the **Create** button.
 - Under Create Application, select **Create Table** and click **Next**.
 - Follow the wizard.

Data types

Data type	Description	Max Size: Oracle 10g
NUMBER(p,s)	Number having precision p and scale s.	The precision p can range from 1 to 38. The scale s can range from -84 to 127.
VARCHAR2(size)	Variable length character string having maximum length <i>size</i> bytes. You must specify size	4000 bytes minimum is 1
DATE	Valid date range	from January 1, 4712 BC to December 31, 9999 AD.
TIMESTAMP	the number of digits in the fractional part of the SECOND datetime field.	Accepted values of fractional_seconds_precision are 0 to 9. (default = 6)

Data type	Description	Max Size: Oracle 10g
CHAR(size)	Fixed length character data of length size bytes. This should be used for fixed length data. Such as codes A100, B102...	2000 bytes Default and minimum size is 1 byte.
CLOB	Character Large Object	8 TB
BLOB	Binary Large Object	8 TB
NVARCHAR2(size)	Variable length national character set string having maximum length <i>size</i> bytes. You must specify size	4000 bytes minimum is 1
BINARY_FLOAT	single-precision floating-point number datatype.	32-bit
BINARY_DOUBLE	double-precision floating-point number datatype	64-bit

Inserting a Row

- Use the Object Browser to perform inserts.
- Click the table you want to insert the record.
- Go to the “data” tab.
- Click insert row.
- The following window will appear.

- Tables
- COUNTRIES
 - DEPARTMENTS
 - EMPLOYEES**
 - JOBS
 - JOB_HISTORY
 - LOCATIONS
 - REGIONS
 - TEST

EMPLOYEES

Create Row

Table: EMPLOYEES

* Employee Id	<input type="text"/>
First Name	<input type="text"/>
* Last Name	<input type="text"/>
* Email	<input type="text"/>
Phone Number	<input type="text"/>
* Hire Date	<input type="text"/>
* Job Id	<input type="text"/>
Salary	<input type="text"/>
Commission Pct	<input type="text"/>
Manager Id	<input type="text"/>
Department Id	<input type="text"/>

> Table Information

Reference

- http://download.oracle.com/docs/cd/B19306_01/install.102/b14316/toc.htm
- Oracle Database 11g: Administration Workshop I, student guide.