

1

Introduction

Objectives

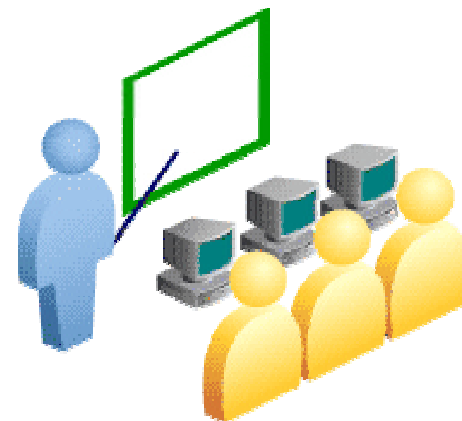
After completing this lesson, you should be able to do the following:

- **Explain the course objectives**
- **Identify the Oracle product line**
- **Describe the basic concepts of a relational database**
- **List the core database administrator tasks**

Course Objectives

In this course, you will gain hands-on experience with:

- **Installing, creating, and administering an Oracle Database 10g Enterprise Edition database**
- **Configuring the database for an application**
- **Implementing a backup and recovery strategy**
- **Employing basic monitoring procedures**



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Oracle Products

- **Oracle Database**
- **Oracle Application Server**
- **Oracle Applications**
- **Oracle Collaboration Suite**
- **Oracle Development Suite**
- **Oracle Services**

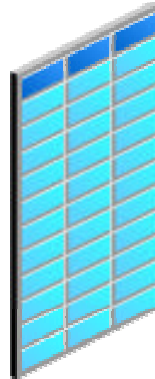


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Relational Database Systems

Table



Row



Column



Field or cell

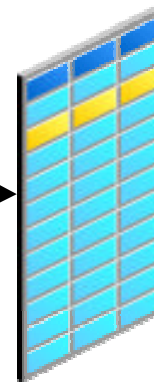


How the Data Is Organized

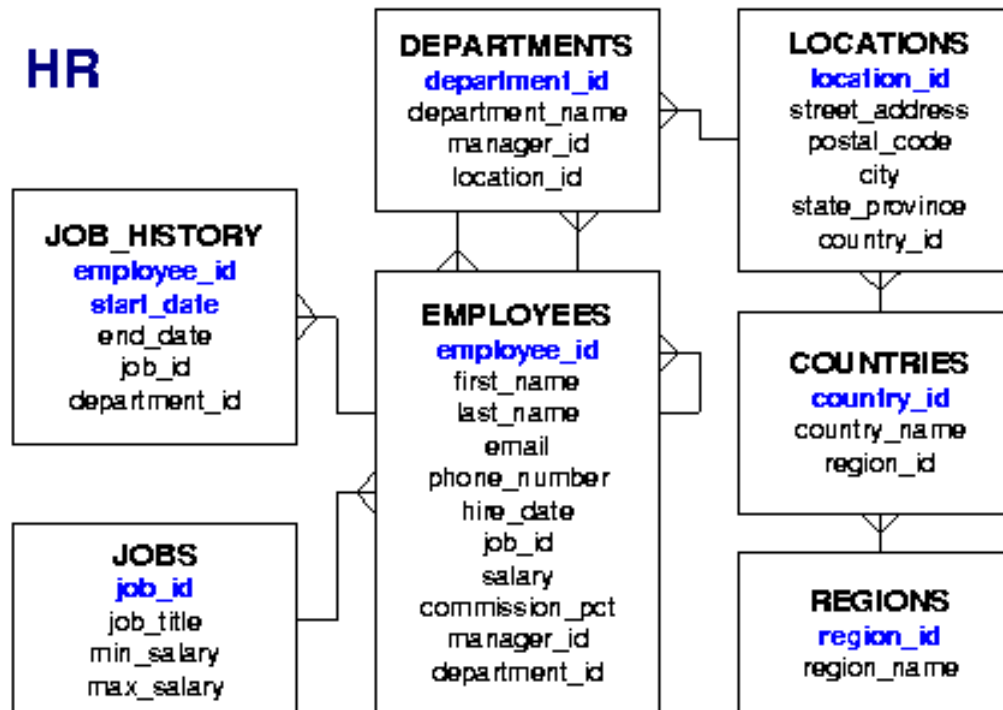
EMPLOYEES

A 3D icon representing a table with 10 rows and 4 columns. The top row is blue, and the rest are light blue. A yellow highlight is on the second row, second column.

DEPARTMENTS

A 3D icon representing a table with 10 rows and 4 columns. The top row is blue, and the rest are light blue. A yellow highlight is on the second row, second column.

Integrity Constraints



Structured Query Language

- **Structured query language (SQL): A standard interactive and programming language for getting information from and updating information in a database**
- **SQL provides statements for a variety of tasks, including:**
 - **Querying data**
 - **Inserting, updating, and deleting rows in a table**
 - **Creating, replacing, altering, and dropping objects**
 - **Controlling access to the database and its objects**
 - **Guaranteeing database consistency and integrity**

Tasks of an Oracle Database Administrator

Prioritized approach for designing, implementing, and maintaining an Oracle database:

- 1. Evaluate the database server hardware.**
- 2. Install the Oracle software.**
- 3. Plan the database.**
- 4. Create and open the database.**
- 5. Back up the database.**
- 6. Enroll system users.**
- 7. Implement the database design.**
- 8. Recover from database failure.**
- 9. Monitor database performance.**



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Summary

In this lesson, you should have learned how to:

- **Explain the course objectives**
- **Describe the Oracle product line**
- **Identify the basic concepts of a relational database**
- **List the core Database Administrator tasks**