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Introduction

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Objectives

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

- List the course objectives
- Describe the sample tables used in the course

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Course Objectives

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

• Use advanced SQL data retrieval techniques to retrieve data from database tables

• Apply advanced techniques in a practice that simulates real life
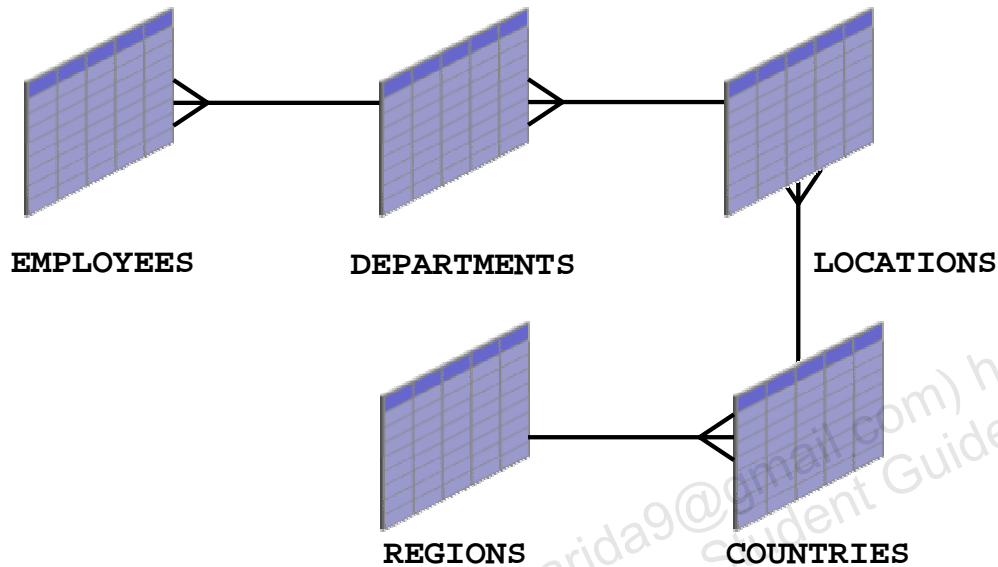
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Course Overview

In this course, you use advanced SQL data retrieval techniques such as:

- Datetime functions
- ROLLUP, CUBE operators, and GROUPING SETS
- Hierarchical queries
- Correlated subqueries
- Multitable inserts
- Merge operation
- External tables
- Regular expression usage

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Course Application

EMPLOYEES   DEPARTMENTS   LOCATIONS

REGIONS   COUNTRIES

Tables Used in the Course

The following tables are used in this course:

- **EMPLOYEES:** The EMPLOYEES table contains information about all the employees such as their first and last names, job IDs, salaries, hire dates, department IDs, and manager IDs. This table is a child of the DEPARTMENTS table.
- **DEPARTMENTS:** The DEPARTMENTS table contains information such as the department ID, department name, manager ID, and location ID. This table is the primary key table to the EMPLOYEES table.
- **LOCATIONS:** This table contains department location information. It contains location ID, street address, city, state province, postal code, and country ID information. It is the primary key table to the DEPARTMENTS table and is a child of the COUNTRIES table.
- **COUNTRIES:** This table contains the country names, country IDs, and region IDs. It is a child of the REGIONS table. This table is the primary key table to the LOCATIONS table.
- **REGIONS:** This table contains region IDs and region names of the various countries. It is a primary key table to the COUNTRIES table.

Summary

In this lesson, you should have learned the following:

- The course objectives
- The sample tables used in the course

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