Database Design

1-1
Introduction to the Oracle Academy

ORACLE®
Academy

Objectives

This lesson covers the following objectives:

- Give examples of jobs, salaries, and opportunities that are possible by participating in the Academy.

- Explain how your participation in the Academy can help you take advantage of these opportunities.

Purpose

- A passage from a book may get you interested in reading the whole text.

- A movie trailer or preview may make you curious enough to see the film.

- A food sampled at the supermarket may result in a product purchase.

- The Oracle Academy hopes to open your eyes to the opportunities that are possible and help you develop the skills to make you successful in the professional workplace.

Questions to Consider

- What kind of career in business or in the technology industry do you want to have?

- What types of jobs are you interested in?

- What options are you preparing yourself for?

Considerations

- Labor statistics report a steady increase in employment opportunities for database and Internet-trained personnel in many fields, including:
  - Publishing
  - Trade
  - Business Services
  - Membership Organizations

- As their Web presence grows in importance, businesses are creating a greater demand for skilled professionals to develop and support Web applications.

ORACLE®
Academy

Statistics

Survey Jobs and Salaries in the IT Field*		
Group	**Average Starting**	**Average Base Salary**
Business programmers	**$54,351**	**$67,382**
Communications	**$44,967**	**$52,945**
Computer staff	**$26,105**	**$29,986**
Database professionals	**$46,327**	**$53,456**
Management	**$63,470**	**$75,317**
Support professionals	**$32,926**	**$39,828**

* Sample from the state of California

ORACLE®
Academy

Required Education for IT Positions

- Today, most IT jobs require an associate's degree or higher to start.

- In addition to the degree, many require industry-recognized certifications.

- With the internet, employers can hire employees to work from remote locations which broadens the pool of candidates.

- Your educational goals are important in helping you get into a career that you enjoy.

ORACLE®
Academy

DDS1L1
Introduction to the Oracle Academy

The Oracle Academy

- Teacher-led/project-driven
-         +   I.T. industry-recognized certification
-         +   Higher-Education options
-         =   21st-century economic viability

ORACLE®
Academy

Oracle Academy Preparation for a Career

Possible Career Path 1

- Title: Entry-Level Database Engineer
- Maintain data integrity; run database queries
- Requirements: 0 - 2 yrs. + bachelor's degree or industry certification
- Salary: $25,000 - $50,000 USD

Oracle Academy Preparation for a Career

Possible Career Path 1

- Title: Database Administrator (DBA)

- Conduct extensive database analysis and problem solving; maintain database configuration and ensure data accuracy

- Requirements: 2 - 5 yrs. + bachelor's degree or industry certification

- Salary: $65,000 - $90,000 USD

Oracle Academy Preparation for a Career

Possible Career Path 1

- Title: Senior Database Administrator

- Develop, implement, enhance, support, and maintain database

- Requirements: 5+ yrs. + bachelor's degree or industry certification

- Salary: $100,000+ USD

Oracle Academy Preparation for a Career

Possible Career Path 2

- Title: Junior Consultant

- Install and troubleshoot client systems

- Requirements: 0 - 3 yrs. + bachelor's degree

- Salary: $35,000 - $45,000 USD

ORACLE®
Academy

Oracle Academy Preparation for a Career

Possible Career Path 2

- Title: Sales Consultant

- Assist sales representatives with system presentations and client needs assessments

- Requirements: 2 - 3 yrs. + bachelor's degree

- Salary: $50,000 - $90,000 USD

Oracle Academy Preparation for a Career

Possible Career Path 2

- Title: Project Manager

- Manage system design, engineering, implementation, and integration; initiate and maintain partner relationships

- Requirements: 4+ yrs. + bachelor's degree and industry certification

- Salary: $90,000+ USD

The Oracle Academy Database Design and Programming with SQL Course

- This Oracle Academy course is the first of two courses available to you.

- This course begins with topics covering:
  - Entity relationship modeling: database design, development, and normalization
  - History of the database, evolution of computing
  - Business skills: presentations, case studies

The Oracle Academy Database Design and Programming with SQL Course

Additional topics covered include:

- SQL (structured query language) "The language of the database"

- Accessing data with SQL

- Data definition, manipulation, and control languages

- Transaction control

- Building applications

- Business skills: interviewing, creating a career portfolio

The Oracle Academy Database Programming with PL/SQL Course

This Oracle Academy course is the second of two courses available to you. Topics covered in this course include:

- PL/SQL, a procedural language extension to SQL
- Procedural programming structures such as variables, constants, and parameters
- Conditional control statements including IF and CASE
- Iterative control statements including LOOP, WHILE, and FOR
- Handling exceptions
- Creating procedures, functions, packages, and triggers

ORACLE®

Academy

Oracle Certifications

The Oracle Academy can prepare you for two certifications.

- Oracle Database SQL Certified Associate
  - 1Z0-071: Oracle Database SQL | 1Z0-071 exam
- Oracle PL/SQL Developer Certified Associate
  - 1Z0-144: Oracle Database 11g: Program with PL/SQL exam (and completion of SQL certification)

Summary

In this lesson, you should have learned how to:

- Give examples of jobs, salaries, and opportunities that are possible by participating in the Academy

- Explain how your participation in the Academy can help you take advantage of these opportunities