# ORACLE Academy

### Database Design

1-1

**Introduction to the 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



#### **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



#### 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 industryrecognized 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



#### The Oracle Academy

- Teacher-led/project-driven
  - + I.T. industry-recognized certification

-+ Higher-Education options

-= 21st-century economic viability





- 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



- 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



- 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



- 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



- 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



- 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



SQL



## 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 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



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