

The logo for Oracle Academy. The word "ORACLE" is in a bold, orange, sans-serif font. Below it, the word "Academy" is in a smaller, dark gray, sans-serif font. The entire logo is centered on a light gray background, which is framed by dark gray horizontal bars at the top and bottom.

ORACLE

Academy

Database Design

1-1

Introduction to the Oracle Academy

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Academy



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This lesson provides both an overview of the Oracle Academy and perspective for the remainder of the course.

Students should be realistic about the kinds of jobs they will qualify for when first entering the job market.

Students should discuss with their counselor, the counseling center, and their parents realistic goals for career planning, and continue researching career opportunities and the requirements needed.

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

The Oracle Academy is a unique experience that is designed to help students along the road to success and put them ahead of the game.

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

Students should consider what kind of jobs they would like to work at. What kind of education do these jobs require? Would a college degree help them in this job?

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**

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Jobs in the fields mentioned above:

Publishing: Online magazines need Web developers, reporters, and editors.

Trade: Foreign-exchange companies need programmers and database administrators.

Business services: Financial-services companies need online traders and market analysts. Call centers need network administrators.

Membership organizations: Users' groups need membership program managers and Web developers to manage their websites.

Even “non-technical” jobs such as newspaper reporter and editor often require computer skills and familiarity with the Internet.

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

Students should be aware of the growing demand for IT skills and the education required to qualify for those opportunities. In addition to postsecondary education requirements, technical certifications may also be required. Students will have an opportunity to get started on earning their first certification at the end of the Database Programming course by taking the Oracle Database SQL Certification exam.

The Oracle Academy

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



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The Oracle Academy is designed to educate secondary and post-secondary students on the fundamentals of Internet and database technology and provide them with the necessary skills to pursue academic and professional opportunities.

The Academy partners with secondary-education institutions to give students not only the technical skills that they need to survive in today's ever-advancing information age, but also the business and logic skills that they can carry with them for life

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 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 Certifications

- The Oracle Academy can prepare you for two certifications
 - Foundations Associate, Database
 - 1Z0-006: Oracle Database Foundations
 - Oracle Database SQL Certified Associate
 - 1Z0-071: Oracle Database SQL

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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