



Database Curriculum

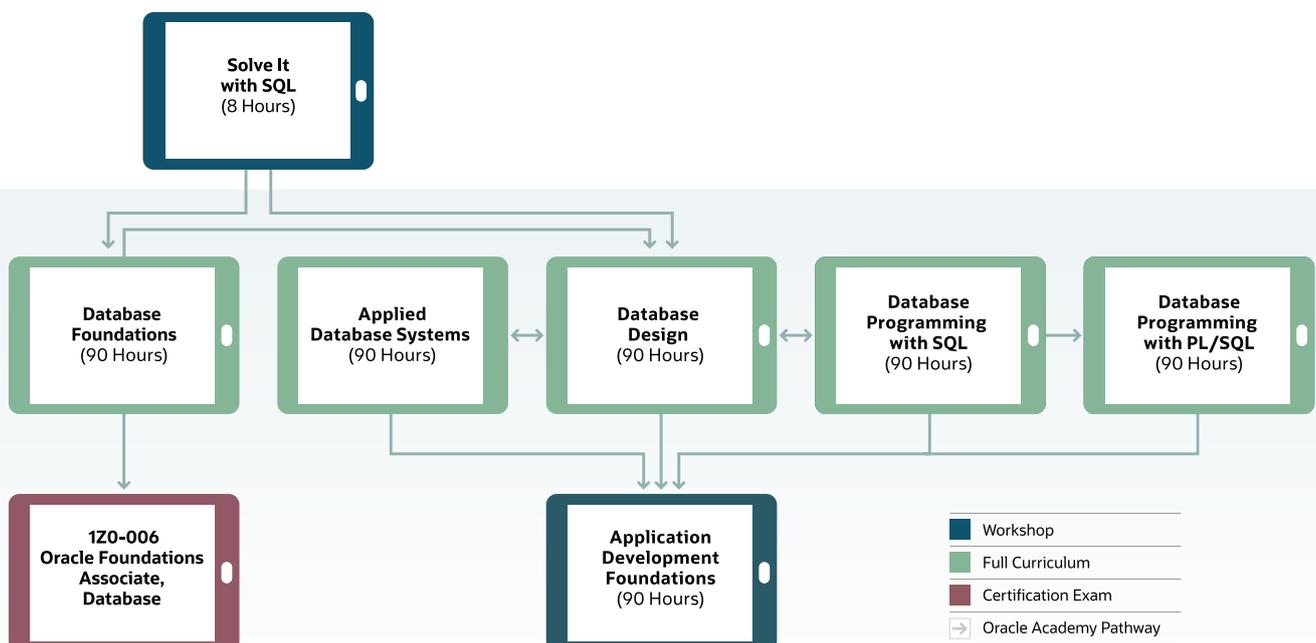
Capitalizing on Oracle's leadership in database, Oracle Academy offers educators rigorous, engaging database curriculum that employs industry-leading technologies to spark student curiosity and imagination and teach critical technology knowledge and skills.

Institutions and their educators can use our free modular curriculum and learning pathways to help learners expand knowledge, develop career-ready skills, and innovate.

Our curriculum and resources are created by educators for educators, to offer computing education course pathways spanning from one semester to three years. Member educators receive access to professional development, curriculum, software, and teaching resources.

Our database curriculum is designed for secondary school and higher education learners. Students are able to learn and practice in Oracle Autonomous Database with the Oracle Academy Cloud Program and with Oracle APEX cloud-enabled practice environments.

With Oracle Academy curriculum, students engage in hands-on learning and develop both database and skills such as problem solving, collaboration, and critical thinking. The knowledge and practical skills students gain help them become career ready across industries



Database Foundations

Students with little database experience learn database design techniques, design databases using a modeling tool, and are introduced to SQL to implement and query databases using hands-on, engaging activities.

90 Hours

Applied Database Systems

Students learn a range of skills required to build modern cloud database solutions using Oracle Database 19c or 23ai through hands-on, engaging activities.

90 Hours

Database Design

Students learn to analyze complex business scenarios and create a data model (a conceptual representation of an organization's information), culminating with a project that challenges them to design a database solution for a business or organization.

90 Hours

Database Programming with SQL

Students implement database designs by creating physical databases using SQL. The curriculum introduces basic SQL syntax and the rules for constructing valid SQL statements.

90 Hours

Database Programming with PL/SQL

Students are introduced to PL/SQL and explore how it extends and automates SQL in administering the Oracle database, and create projects to design, implement, and demonstrate a database

180 Hours

Application Development Foundations

Students learn techniques and tools required to develop database-driven web applications as well as how to design, develop, and deploy them using no-code/low-code Oracle APEX.

90 Hours

Oracle Academy, Oracle's global philanthropic educational program, is open to academic institutions and their educators to help advance student technology education, skills, innovation, and inclusion. We offer free teaching and learning resources — including curriculum, cloud, software, and more — that help develop key knowledge, hands-on practice, and career-relevant skills.

Join Oracle Academy today and access all the benefits of membership.

Learn more about Oracle Academy database curriculum at academy.oracle.com/curriculum

