Database Curriculum

To engage students in computing education, educators need rigorous, robust academic curriculum that sparks curiosity and imagination while teaching critical knowledge and skills.

Available free exclusively to Oracle Academy Institutional members, our database curriculum is created by professional educators and enables educational institutions to offer computing course pathways from one semester to three years. Institutional member educators receive training, curriculum, software licenses, and teaching resources.

Our database courses are designed for secondary school and higher education learners. Students are able to learn and practice Oracle Autonomous Database with the Oracle Academy Cloud Program and with Oracle Application Express (APEX). With Oracle Academy curriculum, students engage in hands-on learning and develop both database and career-ready skills such as problem solving, collaboration, and critical thinking. The knowledge and practical skills students gain will help them advance their academic studies in computing or enter the job market across industries and be ready to achieve their dreams.

DATABASE CURRICULUM

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

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 solution for a business.
180 Hours

Database Design and Programming with SQL
Students learn to analyze complex business scenarios to develop data models and learn to implement and perform advanced queries on databases using SQL in hands-on, engaging activities.
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 database-driven web applications using Oracle Application Express (APEX).
90 Hours
As Oracle’s global, philanthropic educational program, Oracle Academy advances computing education around the world to increase knowledge, innovation, skills development, and diversity in technology fields. The program engages with thousands of educational institutions and educators in more than 120 countries, helping millions of students become college and career ready.

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

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