

Planning and Designing Databases on AWS (AWS-PD-DB)

COURSE OVERVIEW:

In this course, you will learn about the process of planning and designing both relational and nonrelational databases. You will learn the design considerations for hosting databases on Amazon Elastic Compute Cloud (Amazon EC2). You will learn about our relational database services including Amazon Relational Database Service (Amazon RDS), Amazon Aurora, and Amazon Redshift. You will also learn about our nonrelational database services including Amazon DocumentDB, Amazon DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon QLDB. By the end of this course, you will be familiar with the planning and design requirements of all 8 of these AWS databases services, their pros and cons, and how to know which AWS databases service is right for your workloads.

WHO WILL BENEFIT FROM THIS COURSE?

- Data platform engineers
- Database administrators
- Solutions architects
- IT professionals

PREREQUISITES:

We recommend that attendees of this course have previously completed the following AWS courses:

- AWS Database Offerings digital training
- Data Analytics Fundamentals digital training
- Architecting on AWS classroom training

COURSE OBJECTIVES:

After completion of this course, students will be able to...

- Apply database concepts, database management, and data modeling techniques
- Evaluate hosting databases on Amazon EC2 instances
- Evaluate relational database services (Amazon RDS, Amazon Aurora, and Amazon Redshift) and their features
- Evaluate nonrelational database services (Amazon DocumentDB, Amazon DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon QLDB) and their features
- Examine how the design criteria apply to each service
- Apply management principles based on the unique features of each service

COURSE OUTLINE:

Day 1

- Module 0: Planning and Designing Databases on AWS
- Module 1: Database Concepts and General Guidelines
- Module 2: Database Planning and Design
- Module 3: Databases on Amazon EC2
- Module 4: Purpose-Built Databases
- Module 5: Databases on Amazon RDS
- Module 6: Databases in Amazon Aurora

Day 2

- Module 6: Databases in Amazon Aurora (continued)
- Module 7: Databases in Amazon DocumentDB (with MongoDB compatibility)
- Module 8: Amazon DynamoDB Tables

Day 3

- Module 9: Databases in Amazon Neptune
- Module 10: Databases in Amazon Quantum Ledger Database (Amazon QLDB)
- Module 11: Databases in Amazon ElastiCache
- Module 12: Data Warehousing in Amazon Redshift
- Module 13: Course Review

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Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their cloud technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

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- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience