Data Warehousing on AWS

Category: AI, Data & Analytics | **Vendor:** Amazon Web Services

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

In this course, you will learn concepts, strategies, and best practices for designing a cloud-based data warehousing solution using Amazon Redshift, the petabyte-scale data warehouse in AWS. We will demonstrate how to collect, store, and prepare data for the data warehouse by using other AWS services, such as Amazon DynamoDB, Amazon EMR, Amazon Kinesis Firehose, and Amazon Simple Storage Service (Amazon S3). We will also explore how to use business intelligence (BI) tools to perform analysis on your data.

About This Course

In this course, you will learn how to:

- Evaluate the relationship between Amazon Redshift and other Big Data systems
- Evaluate use cases for data warehousing workloads and review real-world implementation of AWS data and analytic services as part of a data warehousing solution
- Choose an appropriate Amazon Redshift node type and size for your data needs
- Understand which security features are appropriate for Amazon Redshift, such as encryption, IAM permissions, and database permissions
- Launch an Amazon Redshift cluster and use the components, features, and functionality to implement a data warehouse in the cloud
- Use other AWS data and analytic services, such as Amazon DynamoDB, Amazon EMR, Amazon Kinesis Firehose, and Amazon S3, to contribute to the data warehousing solution
- Evaluate approaches and methodologies for designing data warehouses
- Identify data sources and assess requirements that affect the data warehouse design
- Design the data warehouse to make effective use of compression, data distribution, and sort methods
- Load and unload data and perform data maintenance tasks
- Write queries and evaluate query plans to optimize query performance
- Configure the database to allocate resources such as memory to query queues and define criteria to route certain types of queries to your configured query queues for improved processing
- Audit, monitor, and receive event notifications about activities in the data warehouse by using features and services such as Amazon Redshift database audit logging, Amazon CloudTrail, Amazon CloudWatch, and Amazon Simple Notification Service (Amazon SNS)
- Prepare for operational tasks such as resizing Amazon Redshift clusters and using snapshots to back up and restore clusters
- Use a BI application to perform data analysis and visualization tasks against your data

Who Should Attend

This course is intended for:

- Database architects
- Database administrators
- Database developers
- Data analysts
- Data scientists

Prerequisites & Entry Requirements

General Prerequisites:

We recommend that attendees of this course have the following prerequisites:

- AWS Technical Essentials (AWSE) or equivalent experience with AWS
- Familiarity with relational databases and database design concepts

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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Detailed Course Outline

Loading data, Loading data, Loading data, Loading data, Writing queries and tuning for performance, Writing queries and tuning for performance, Writing queries and tuning for performance, Writing queries and tuning for performance, Amazon Redshift Spectrum, Amazon Redshift Spectrum, Amazon Redshift Spectrum, Amazon Redshift Spectrum, Maintaining clusters, Maintaining clusters,

Maintaining clusters, Maintaining clusters, Analyzing and visualizing data, Analyzing and visualizing data, Analyzing and visualizing data, Analyzing and visualizing data, Introduction to Data Warehousing, Introduction to Data Warehousing, Introduction to Data Warehousing, Introduction to Data Warehousing, Introduction to Amazon Redshift, Introduction to Amazon Redshift, Introduction to Amazon Redshift, Introduction to Amazon Redshift, Launching clusters, Launching clusters, Launching clusters, Launching clusters, Designing the database schema, Designing the database schema, Designing the database schema, Designing the database schema, Identifying data sources, Identifying data sources, Identifying data sources, Identifying data sources

Frequently Asked Questions

Q: What delivery options are available for Data Warehousing on AWS?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Data Warehousing on AWS course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Data Warehousing on AWS training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Data Warehousing on AWS?

Yes, we provide corporate training, dedicated training, and closed classes for Data Warehousing on AWS. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Data Warehousing on AWS, Data Analysis, DWAWS, Amazon Web Services, vILT

Q: Why choose Nexus Human for Data Warehousing on AWS?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Data Warehousing on AWS training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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