

# Vertica Aggregate Projection Design (VERTAPD)

ID VERTAPD Price on request Duration 2 days

## Who should attend

Database administrators, product managers, and quality assurance team members

## Prerequisites

To be successful in this course, you should have the following prerequisites or knowledge:

- Completion of Vertica Essentials (OnDemand or Instructor-led) or equivalent experience
- Completion of Projection Tuning (OnDemand or Instructor-led) would be helpful, but not required
- A basic knowledge of SQL

## Course Objectives

<p>On completion of this course, participants should be able to:

- Manually build and test the following projection types:
  - Projections with expressions
  - Live aggregate projections
  - TopK projections
  - Partition range projections
- Describe the advantages and limitations of each of these projection types

## Course Content

### Module 1: Course Overview

- Introduction to the course
- How to request a lab environment

### Module 2: The Lab Environment

- Access the training environment
- Review the environment configuration
- Using the valab utility
- Using the Management Console

### Module 3: Overview: Aggregate Projection Types

- Describe the manual projection types, and the scenarios they address

### Module 4: Projections With Expressions

- Build and test a projection that includes mathematical expressions
- Identify system table structures for projections with expressions

### Module 5: Live Aggregate Projections

- Build and test a projection that uses aggregate functions
- Identify system table structures for live aggregate projections

### Module 6: TopK Projections

- Build and test a projection that returns a data subset per analytic function
- Identify system table structures for TopK projections

### Module 7: Choosing the Right Projection Type

- Find the most performant projection type for a query

### Module 8: Partition Range Projections

- Build and test projections containing a subset of partitioned data
- Identify system table structures for partition range projections

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