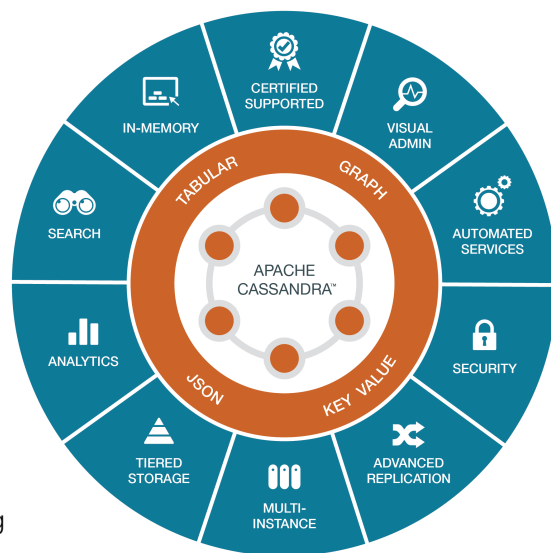


# DS220: Data Modeling

## Instructor-Led Training

### Overview

DS220 teaches you data modeling techniques essential to a successful Apache Cassandra™ and DataStax Enterprise deployment. You'll learn conceptual data modeling techniques; principles and methodology; design techniques and optimization; and review select data modeling use cases.



<b>Duration</b>	2 days
<b>Audience</b>	Data architects, database designers, database administrators, and database developers seeking to gain proficiency in data modeling and schema design for DataStax Enterprise Apache™ Cassandra
<b>Prerequisites</b>	Completion of the DataStax Enterprise Foundations of Apache Cassandra™ online course.

### Course details

- Course Introduction
- Introduction to KillrVideo
- Quick Wins
  - Challenge 1
  - Challenge 2
  - Challenge 3
  - Challenge 4
  - Challenge 5
  - Challenge 6
  - Final challenge
- Conceptual Data Modeling
  - Conceptual data modeling introduction
- Physical Data Modeling
  - Analysis and Validation
  - Partition sizing
  - Data duplication
  - Data consistency
  - Client-side joins
  - Transactions
  - Data aggregation
  - Key optimizations
  - Table optimizations
  - Concurrent access
  - Final physical data model

With more than 500 customers in over 50 countries, DataStax provides data management to the world's most innovative companies. For more information, visit [DataStax.com/customers](http://DataStax.com/customers) or follow us at @DataStax.

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- Relationship keys
  - Hierarchies
  - Final conceptual data model
- Application Workflow and Access Patterns
- Logical Data Modeling
  - Modeling methodologies
  - Chebotko diagrams
  - Logical modeling principles
  - Mapping rules
  - Mapping patterns
  - Final logical data model
- Data Modeling Use Cases
  - Sensor data use case
  - Messaging use case
  - Multi-tenancy use case

## Benefits

Classroom training is delivered by DataStax experts, who will share first-hand experiences and practical use cases. High level of interactivity with the trainer coupled with hands-on labs deliver an active learning experience.

A private on-site training setting provides the option to tailor the delivery based on your needs and preferences. We will work with your team to determine areas requiring emphasis during delivery. Additionally, on-site training fosters teamwork and team learning that continue through the project.

For more information, please contact your account executive or send an email to [training@datastax.com](mailto:training@datastax.com).

## Terms

Please refer to the DataStax Services Terms for specific details regarding terms of Training delivery.

- This is a pre-paid Service offering.
- The Service expires 365 days after receipt of a valid customer order.
- The maximum class size is 20 attendees.
- This training is delivered onsite.
- A virtual classroom option is available., but we do not recommend mixing in-person and remote attendees. The remote attendees have limited learning experience in this environment.

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