УДК 004.6

DATA VAULT CDVDM. CERTIFIED DATA VAULT DATA MODELER COURSE



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Abstract. In this article Data Vault course is described. This course will guide you through the Data Vault modeling approach from modeling constructs and patterns to applying data vault principles in your DWBI program. This course covers also loading paradigms, architectures, and how to develop an effective overall data vault data warehouse program.

Key words: Data Vault, course, DWBI program

Forward

Thank you for your interest in the Data Vault certification course. Your successful completion of this course will result in a designation of Certified Data Vault Data Modeler – CDVDM.

Data Vault modeling is rapidly becoming the standard modeling approach for the data warehouse. Over 1200 major international organizations are applying data vault modeling techniques today.

The data vault principles are specifically well suited for data integration and historization. When applied to data warehousing programs data vault modeling can provide the organization with some very compelling benefits. These include agility, auditability, adaptability, alignment with the business, and support for operational data warehousing initiatives.

To gain these benefits the organization will need to commit to both EDW program level factors as well as specific data vault modeling patterns, standards and methods. This course will guide you through these modeling patterns, rules and methods to prepare you for successful data vault modeling in your organization.

We look forward to seeing you in the classroom.

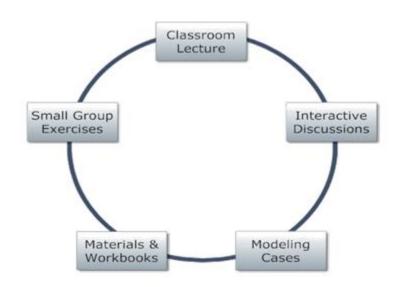
The CDVDM Course

Welcome to the Certified Data Vault Data Modeler - CDVDM seminar! This course will guide you through the Data Vault modeling approach from modeling constructs and patterns to applying data vault principles in your DWBI program. This course covers also loading paradigms, architectures, and how to develop an effective overall data vault data warehouse program. Since data vault may be new for many of you, this course also includes a summary of the benefits of using data vault techniques.

CDVDM Course Structure

The CDVDM course is a three (3) day intensive classroom based course. The course consists of five core components plus the certification exam. The classroom time is

40% Classroom Lecture, 30% Small Group Exercises and 30% Interactive Discussions.



The course materials consist of a published course book that follows the classroom lectures and several modeling cases for the small group modeling labs. Class interactive discussions are based on these cases plus workbook examples.

Target Audience

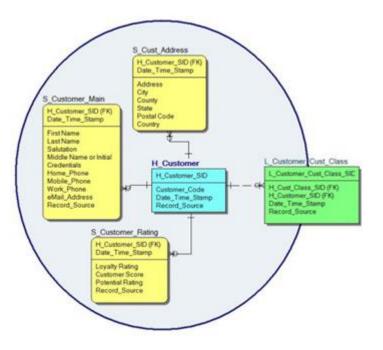
The target audience for this course includes data warehousing and business intelligence professionals, data modelers, data architects, model managers, data warehouse DBAs, data scientists, and ETL professionals. Because data vault modeling concepts are closely aligned with the business aspects of DWBI programs our target audience also includes program managers, business analysts, information modelers, information architects, and other BICC professionals.

Course Outline				
Day One		<u>Day Two</u>		
0900	Data Warehouse Modeling	0915	Continue Second Case	
0930	Ensemble Modeling	1030	Break	
1000	Data Vault Core Constructs	1045	Class Discussion & Groups Present	
1020	Comparing Modeling Methods	1120	Satellite Design & Exceptions	
1030	Break	1135	Expanded UOW & Keyed Instance	
1045	Tracking History	1150	Modeling Address	
10:55	Information Modeling	1200	Lunch	
11:15	Data Vault Modeling Process	1300	Bike Shop Example	
1115	First Small Group Case Exercise	1320	Applying the DV Ensemble	
1200	Lunch	1335	Standard and Expanded Attributes	
1300	Continue First Case	1350	Managing Dates / Bi-temporal Data	
1345	Class Discussion & Groups Present	1400	Third Small Group Case Exercise	
1415	Link Design & Exceptions	1515	Break	
1430	SAL & HAL	1530	Continue Third Case	
1440	Business Key Topics	1545	Class Discussion & Groups Present	
1500	Disconnected & Reference Tables	1620	Raw & BDV Layers	
1515	Break	1630	Hyper Forms and Unstructured	
1530	Unit of Work	1640	SID versus Hash	
1600	Second Small Group Case Exercise	1650	Virtualization	
1700	Wrap up for the Day	1700	Wrap up for the Day	

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Day Three

- 0830 Q& A from Day Two
- 0900 Data Vault & Agility
- 0930 Data Vault & Big Data
- 1000 Architecture & Layers
- 1020 Helpful Tables: Bridge & PIT
- 1030 Break
- 1045 Loading Patterns
- 1130 Class Discussion
- 1145 Recap for Exam
- 1200 Lunch
- 1300 Recap & Discussions
- 1330 CDVDM EXAM
- 1630 Conclusion



Requirements and Pre-Requisites

This course does not require a computer or other device. Students should be prepared to take notes. All materials, work books, case books and exercises will be provided.

There are no pre-requisites for this course. It is helpful if you bring any specific topics that you are interested in concerning data vault. It can also be useful if you have the time for web research on the topic prior to class. Depending on the course section, the first day of class may be preceded by 2 weeks of online on-demand video lessons.