



# Database Management Essentials

by University of Colorado System



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Thanks for signing up for the essentials for database management course. The course includes 11 modules with the first module providing course background and the other 10 modules providing course details. For each module except the course background, you will have video lectures, slides, optional readings, practice problems, and either quizzes or graded problem sets. The course is heavily problem-oriented so you will get plenty of practice to develop your skills using Oracle, MySQL, and a database diagramming tool. When you complete the course, you'll have a detailed knowledge and skill set for designing and using relational databases, the most widely used databases for businesses.

## Congratulations!

Since learners have a variety of computing backgrounds and learning styles, you may want to consider an alternative schedule to complete this course. For typical learners with some computing background, I recommend the seven week schedule built into the course. For learners with high motivation and some database background, I recommend a slightly faster pace on a 5 or 6 week schedule with modules 1 to 3 completed in the first week. For learners wanting a slower pace, I recommend an eight week schedule with one of the weeks with two modules (week 3, 4, or 5) split into two weeks.



If you have friends who might be interested in database management, please let them know about the class, and get them to sign up too (maybe forward this email to them). If you and your friends form a 'study group' and work together to learn about database manage, that would likely make the experience more fun, and **WEEK 1** you learn more quickly too.

Welcome again to the Essentials of Database Management course. Database management is one of the most sought after skills today in the technology industry, and I hope that this course will help make you an expert. You will also be prepared for the other four courses in the specialization, 'Data warehousing for business intelligence.' This specialization will help you gain entry into exciting and challenging opportunities as a data warehouse or business intelligence professional.

Readings

Done





## Introduction to Databases and DBMSs

Videos Done

Readings Done

Practice Exercises Done

### REQUIRED



#### Quiz

Module02 Quiz

20 min

GRADE

100%

DUE

May 7



## WEEK 2



## Relational Data Model and the CREATE TABLE Statement

Videos 31 min left

Readings 30 min left

Practice Exercises Done

### REQUIRED



#### Peer-graded Assignment

Module 3 Assignment

2h

GRADE

96%

DUE

May 14



#### Review Your Peers


Module 3 Assignment

96%

May 17

✓

WEEK 3



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Basic Query Formulation with SQL

Videos



46 min left

Readings

1h 50m left

Practice Exercises

22 min left

REQUIRED	GRADE	DUE
<div> <b>Peer-graded Assignment</b> Module 4 Assignment 2h</div>	100%	May 21
<div> <b>Review Your Peers</b> Module 4 Assignment</div>	100%	May 24

Extended Query Formulation with SQL

Videos



44 min left

Readings

1h 40m left

Practice Exercises

30 min left



REQUIRED	GRADE	DUE
<div> <b>Peer-graded Assignment</b> Module 5 Assignment 2h</div>	100%	May 21
<div> <b>Review Your Peers</b> Module 5 Assignment</div>	100%	May 24



Notation for Entity Relationship Diagrams

Videos 34 min left



Readings 1h 10m left

REQUIRED	GRADE	DUE
 <b>Peer-graded Assignment</b> Module 6 Assignment 2h	99%	May 28
 <b>Review Your Peers</b> Module 6 Assignment	99%	May 31

ERD Rules and Problem Solving

Videos 30 min left

Readings 1h 20m left

REQUIRED	GRADE	DUE
 <b>Peer-graded Assignment</b> Module 7 Assignment 2h	100%	May 28
 <b>Review Your Peers</b> Module 7 Assignment	100%	May 31

Developing Business Data Models



Videos

37 min left



Readings

1h 10m left

REQUIRED	GRADE	DUE
<div> <b>Peer-graded Assignment</b> Module 8 Assignment 2h</div>	100%	Jun 4
<div> <b>Review Your Peers</b> Module 8 Assignment</div>	100%	Jun 7



Data Modeling Problems and Completion of an ERD

Videos

23 min left

Readings

1h left

REQUIRED	GRADE	DUE
<div> <b>Peer-graded Assignment</b> Module 9 Assignment 2h</div>	100%	Jun 4
<div> <b>Review Your Peers</b> Module 9 Assignment</div>	100%	Jun 7

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WEEK 6

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Schema Conversion




Videos

18 min left

Readings

1h left

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REQUIRED		GRADE	DUE
 <b>Peer-graded Assignment</b> Module 10 Assignment 2h		97%	Jun 11
 <b>Review Your Peers</b> Module 10 Assignment		97%	Jun 14

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WEEK 7

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Normalization Concepts and Practice



Videos

41 min left

Readings

1h 20m left

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REQUIRED	GRADE	DUE
 <b>Peer-graded Assignment</b> Module 11 Assignment 2h	96%	Jun 18
 <b>Review Your Peers</b> Module 11 Assignment	96%	Jun 21