MySQL - COURSE CONTENT

MySQL - COOKSE CONTENT		
Ch1: Introduction to MySQL		
□ Course Goals		
☐ Course Lesson Map		
☐ MySQL Overview		
☐ MySQL Database Server Editions		
☐ MySQL Products		
☐ MySQL Resources		
☐ Example Databases		
Ch2: MySQL Server and Client		
☐ MySQL Client/Server Model		
☐ Communication protocols		
☐ MySQL Connectors		
☐ The LAMP Stack		
☐ Installation of MySQL Server		
☐ MySQL Server and Client Startup		
☐ Keyboard Editing		
☐ Session logging with tee file		
Ch3: Database Basics		
☐ Basics of Relational Databases		
☐ Spreadsheet versus Databases		
☐ Entitites and Relationships		
☐ Relationship Categories		

☐ SQL language and MySQL	
□ SQL data definition language	
□ SQL data manipulation language	
Ch4: Database Design	
□ Database Modelling	
☐ Structure and Cardinality Diagram (ERD)	
□ Keys	
□ Normalization	
□ Database Design	
☐ Viewing and Evaluating a Database	
Ch5: Table Data types	
□ Data types as part of Database Deisgn	
□ Numeric Data types	
☐ Temporal Data types	
☐ Character string Data types	
☐ Character Set and collation Support	
☐ Binary string data types	
□ Data type Considerations	
☐ The meaning of NULL	
Ch6: Database and Table Creation	
☐ Creating a Database	
☐ Creating a Table	
☐ Showing how a Table was Created	
□ Column Options	
☐ Table Options	

☐ Table Indexing
☐ Table Constraints
Ch7: Basic Queries
☐ The SELECT statement
☐ Troubleshooting
□ SQL Modes for Syntax Checking
☐ Common SQL Modes
☐ MySQL Workbench for SQL Development
Ch8: Database and Table Maintainence
☐ Deleting databases and tables
☐ Creating a new table using an existing one
☐ Confirming the creation of a new table
☐ Copying an existing table structure
☐ Creating a temporary table
☐ Adding, removing and modifying table columns
☐ Adding, removing and modifying indexes and constraints
Ch9: Table Data Manipulation
☐ Manipulating Table Row Data
☐ The INSERT Statement
☐ The REPLACE Statement
☐ The UPDATE Statement
☐ The DELETE Statement
Ch10: Functions

☐ Function	s in MySQL Expressions
☐ Using Fu	ınctions
☐ String Full	ınctions
☐ Tempora	l Functions
□ Numeric	Functions
☐ Control I	Flow Functions
□ Aggrega	te Functions
☐ Spaces i	n Function Names
Ch11: Exporti	ng and Importing Data
□ Exportin	g with a Query
☐ Exportin	g with a MySQL Utility
□ Importin	g from a Data File
☐ Importin	g with a MySQL Utility
Ch12: Joining	Tables
☐ Combini	ng Multiple Tables
☐ Joining 7	Tables with SELECT
□ Comma-	Seperated Joins
□ Inner Joi	ns
□ Outer Jo	ins
☐ Table Na	me Aliases
Ch13: Table S	ubqueries
☐ Advanta	ges of using a Subquery
□ Placeme	nt of Subqueries
☐ Subquer	y Categories

☐ Subquery result Table Types
☐ Subquery type/placement
☐ Finding Mismatches
☐ Modifying tables using Subqueries
☐ Converting Joins to Subqueries
Ch14: MySQL Graphical User Interface Tools
☐ MySQL Workbench
☐ MySQL Enterprise Monitor
Ch15: Supplementary Information
☐ Storage Engines
☐ Creating Views
□ Transactions
☐ Retrieving Metadata
□ Performance Schema
□ MySQL Enterprise Backup
Ch16: Conclusion
□ Course Goals
☐ MySQL Curriculum Path
□ MySQL Resources
□ Evaluation
□ Final Q&A