

 **FREE eBook**

LEARNING MySQL

Free unaffiliated eBook created from
Stack Overflow contributors.

#mysql

Table of Contents

About.....	1
Chapter 1: Getting started with MySQL.....	2
Remarks.....	2
Versions.....	2
Examples.....	3
Getting Started.....	3
Information Schema Examples.....	7
Processlist.....	7
Stored Procedure Searching.....	7
Chapter 2: ALTER TABLE.....	8
Syntax.....	8
Remarks.....	8
Examples.....	9
Changing storage engine; rebuild table; change file_per_table.....	9
ALTER COLUMN OF TABLE.....	9
ALTER table add INDEX.....	9
Change auto-increment value.....	10
Changing the type of a primary key column.....	10
Change column definition.....	10
Renaming a MySQL database.....	10
Swapping the names of two MySQL databases.....	11
Renaming a MySQL table.....	12
Renaming a column in a MySQL table.....	12
Chapter 3: Arithmetic.....	14
Remarks.....	14
Examples.....	14
Arithmetic Operators.....	14
BIGINT.....	14
DOUBLE.....	15
Mathematical Constants.....	15

Pi.....	15
Trigonometry (SIN, COS).....	15
Sine.....	15
Cosine.....	15
Tangent.....	15
Arc Cosine (inverse cosine).....	16
Arc Sine (inverse sine).....	16
Arc Tangent (inverse tangent).....	16
Cotangent.....	16
Conversion.....	16
Rounding (ROUND, FLOOR, CEIL).....	17
Round a decimal number to an integer value.....	17
Round up a number.....	17
Round down a number.....	17
Round a decimal number to a specified number of decimal places.....	17
Raise a number to a power (POW).....	18
Square Root (SQRT).....	18
Random Numbers (RAND).....	18
Generate a random number.....	18
Random Number in a range.....	18
Absolute Value and Sign (ABS, SIGN).....	19
Chapter 4: Backticks.....	20
Examples.....	20
Backticks usage.....	20
Chapter 5: Backup using mysqldump.....	21
Syntax.....	21
Parameters.....	21
Remarks.....	22
Examples.....	22
Creating a backup of a database or table.....	22
Specifying username and password.....	23
Restoring a backup of a database or table.....	23

mysqldump from a remote server with compression.....	24
restore a gzipped mysqldump file without uncompressing.....	24
Backup direct to Amazon S3 with compression.....	24
Tranferring data from one MySQL server to another.....	24
Backup database with stored procedures and functions.....	25
Chapter 6: Change Password.....	26
Examples.....	26
Change MySQL root password in Linux.....	26
Change MySQL root password in Windows.....	27
Process.....	27
Chapter 7: Character Sets and Collations.....	28
Examples.....	28
Declaration.....	28
Connection.....	28
Which CHARACTER SET and COLLATION?.....	28
Setting character sets on tables and fields.....	29
Chapter 8: Clustering.....	30
Examples.....	30
Disambiguation.....	30
Chapter 9: Comment Mysql.....	31
Remarks.....	31
Examples.....	31
Adding comments.....	31
Commenting table definitions.....	31
Chapter 10: Configuration and tuning.....	33
Remarks.....	33
Examples.....	33
InnoDB performance.....	33
Parameter to allow huge data to insert.....	33
Increase the string limit for group_concat.....	34
Minimal InnoDB configuration.....	34
Secure MySQL encryption.....	35

Chapter 11: Connecting with UTF-8 Using Various Programming language.....	36
Examples.....	36
Python.....	36
PHP.....	36
Chapter 12: Converting from MyISAM to InnoDB.....	38
Examples.....	38
Basic conversion.....	38
Converting All Tables in one Database.....	38
Chapter 13: Create New User.....	39
Remarks.....	39
Examples.....	39
Create a MySQL User.....	39
Specify the password.....	39
Create new user and grant all privileges to schema.....	39
Renaming user.....	40
Chapter 14: Creating databases.....	41
Syntax.....	41
Parameters.....	41
Examples.....	41
Create database, users, and grants.....	41
MyDatabase.....	43
System Databases.....	43
Creating and Selecting a Database.....	44
Chapter 15: Customize PS1.....	45
Examples.....	45
Customize the MySQL PS1 with current database.....	45
Custom PS1 via MySQL configuration file.....	45
Chapter 16: Data Types.....	46
Examples.....	46
Implicit / automatic casting.....	46
VARCHAR(255) -- or not.....	46
INT as AUTO_INCREMENT.....	47

Others.....	47
Introduction (numeric).....	48
Integer Types.....	48
Fixed Point Types.....	48
Decimal.....	49
Floating Point Types.....	49
Bit Value Type.....	49
CHAR(n).....	50
DATE, DATETIME, TIMESTAMP, YEAR, and TIME.....	50
Chapter 17: Date and Time Operations.....	52
Examples.....	52
Now().....	52
Date arithmetic.....	52
Testing against a date range.....	53
SYSDATE(), NOW(), CURDATE().....	53
Extract Date from Given Date or DateTime Expression.....	53
Using an index for a date and time lookup.....	53
Chapter 18: Dealing with sparse or missing data.....	55
Examples.....	55
Working with columns containing NULL values.....	55
Chapter 19: DELETE.....	58
Syntax.....	58
Parameters.....	58
Examples.....	58
Delete with Where clause.....	58
Delete all rows from a table.....	58
LIMITing deletes.....	59
Multi-Table Deletes.....	59
foreign keys.....	60
Basic delete.....	61
DELETE vs TRUNCATE.....	61
Multi-table DELETE.....	61

This is a sample, click download link to get the full Tutorial

CLICK BELOW

