

INTRODUCTION TO MYSQL

WHAT IS A DATABASE AND WHY DO WE NEED SQL?

TOP 5 PROBLEMS IN EXCEL AND WHY USING SQL SOLVES THIS PROBLEM SHOULD WE IMPORT FROM EXCEL AND WHY? HOW IT IS DONE?

CREATE A LINK TO EXCEL SPREADSHEET WITH MYSQL?

HOW TO CREATE TABLES 101

SQL DATA TYPES PRIMARY KEYS

NULL VALUES AND NOT NULL VALUES AUTO INCREMENT

HOW TO CREATE A BASIC QUERY USE THE WHERE CLAUSE CONDITIONAL STATEMENTS

MULTIPLE CONDITIONS COMPARISON OPERATORS LOGIC VALUES

NULL VALUES

PATTERNS ALSO KNOWN AS WILDCARD CHARACTERS COMPARE COLUMN VALUES

ADVANCED QUERIES

DISTINCT VALUES

TOP VALUES DATE FUNCTIONS

DATE CALCULATIONS AGGREGATE FUNCTIONS STRING FUNCTIONS SORT DATA

RANK DATA

SAVE A QUERY EXECUTE A QUERY MODIFY A SAVED QUERY

DATA WRANGLING

GROUP DATA

FILTERING GROUPED DATA SUMMARIZE GROUP DATA PIVOT AND UNPIVOT OPERATORS

DATA ANALYTICS

JOINS

INNER JOIN LEFT JOIN

FULL OUTER JOIN SELF-JOIN UNIONS

EXCEPT AND INTERSECT

PRESENTING AND MAKING SENSE OF QUERY RESULTS SAVING THE QUERY RESULTS AND EXPORTING GENERATING REPORTS

TABLES & QUERIES

IMPORTING AND EXPORTING DATA UPDATE DATA

QUERIES

DISTINCT VALUES TOP VALUES

SUBQUERIES WITH "IN" INLINE VIEWS

VIEWS

CREATE A SIMPLE VIEW WITH CHECK OPTION

LOCKS AND TRANSACTIONS

EXCLUSIVE TABLE LOCKS SHARED TABLE LOCKS USING VARIABLES

SETTING VARIABLES WITH SELECTS SELECT/UPDATE EXAMPLE SIMPLE TRANSACTIONS

MYSQL FUNCTIONS

STRING TO DATE AND DATE FORMAT CONTROL FLOW FUNCTIONS

CASTING FUNCTIONS

## STORED PROCEDURES

INTRODUCTION TO STORED PROCEDURES CHANGING THE DELIMITER

EDITING A STORED PROCEDURE VARIABLE SCOPE

A DATA GENERATING PROCEDURE

## TRIGGERS

INTRODUCTION TO TRIGGERS VALIDATING TRIGGERS TRIGGERS AND TRANSACTIONS

## USER DEFINED FUNCTIONS

FUNCTIONS VS PROCEDURES USER-DEFINED FUNCTIONS