## SQL Basics

database

### table

one-to-one

one-to-many

### SQL - language

Structured Query Language

PL/SQL

T-SQL

pgSQL

Three parts

DDL

DML

DCL

MySQL Michael Monty Widenius

## connection

### steps:

1. MySql workbench
2. add connection
3. give connection name as localhost
4. click on Test Connection
5. enter password as root
6. Open Terminal
7. $ mysql -u root -p
8. enter password as root
9. mysql> SHOW DATABASES;
10. mysql> help

## Loading a Database

### Steps:

1. download the database
2. mysql> source /home/ubuntu/Desktop/training/sql/mysqlsampledatabase.sql

/home/ubuntu/Downloads/mysqlsampledatabase.sql

1. mysql> SHOW DATABASES;
2. USE classicmodels;
3. SELECT \* FROM customers;

## MySQL Basic statements

## Querying Data

### SELECT

SELECT columns from employees;

SELECT

firstName

FROM

employees;

SELECT

firstName,

lastName

FROM

employees;

SELECT \*

FROM

employees;

SELECT 10 \* 5

SELECT NOW();

SELECT CONCAT( ‘Harry’, ‘Potter’)

## Sorting data

### ORDER BY

SELECT

firstName,

lastName

FROM

employees

ORDER BY

lastName;

## Filter

### WHERE

SELECT

lastname,

firstname,

jobtitle

FROM

employees

WHERE

jobtitle = 'Sales Rep';

SELECT

lastname,

firstname,

jobtitle

FROM

employees

WHERE

jobtitle = 'Sales Rep' AND

officeCode = 6;

### DISTINCT

## Operators (symbols)

### comparison

= EQUALITY

!= not equal to

<> not equal to

<

>

<=

>=

#### 

### Logical

#### AND

all conditions must be true

#### OR

any one condition can be trues

### IS NULL

### LIKE

pattern based

% any string 0 or more characters

%he the - match

he - match

there - no match

he% here - match

he - match

the - no match

%he%

\_he the - match

there - no match

ache - no match

\_he% the - match

there - match

ache - no match

## ALIAS