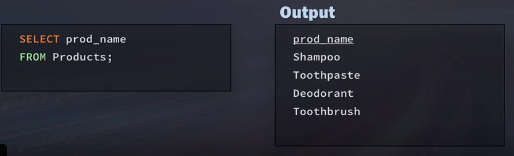
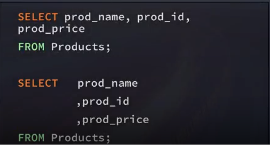
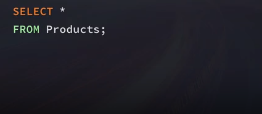
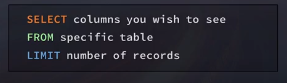
**Select：**

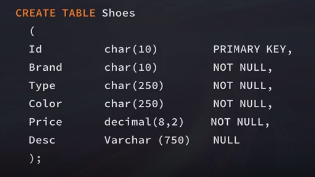
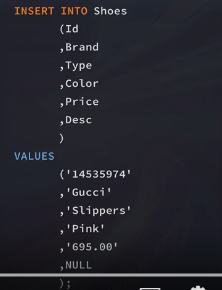




select all columns in the table

limit a number of columns

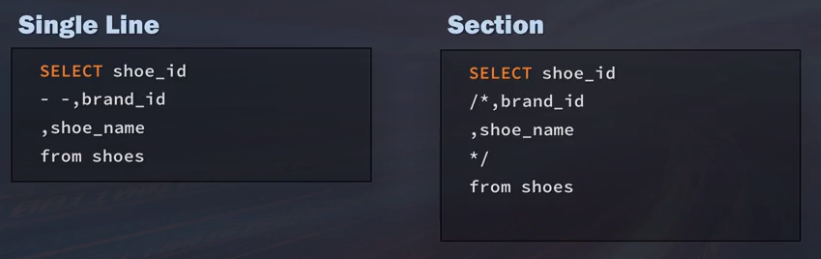
**Create a table**

1. define:
2. add data:

**Temporary table**

选择shoes table中的一个subset，when shoes type=sandals. 创建一个temp table named sandal

**Add comments**

****

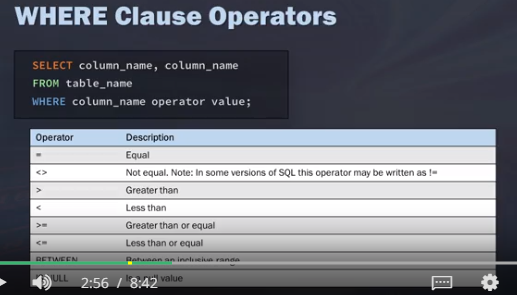
* -这一行是comment

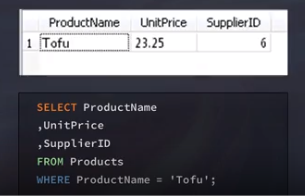
/\* \*/ 中间是注释

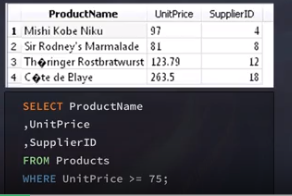
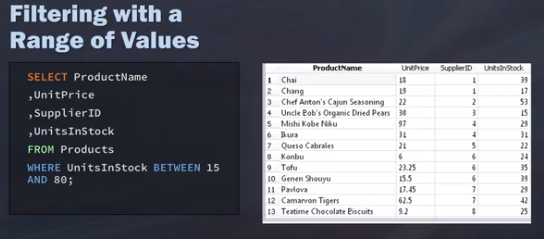
Sqlite网站：<https://www.tutorialspoint.com/sqlite/index.htm>

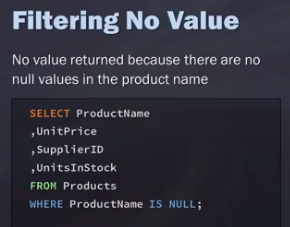
Mysql 和 sqlite是平级的，workbend是mysql的编辑器

**where**

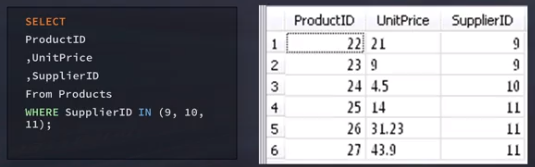


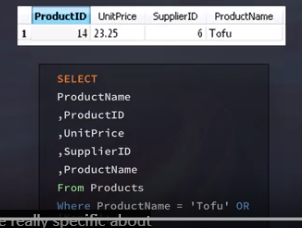


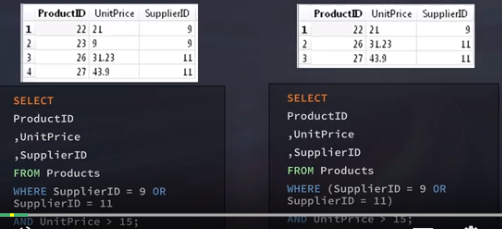
 ALICEMUTTON以外的数据



**In，or , not**





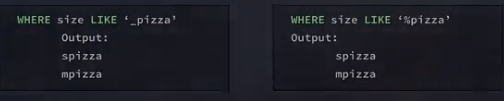
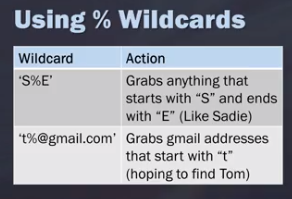
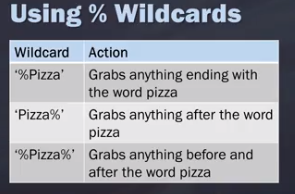
先算and



**WILDCARDS & like**

像某个字符串一样的数据

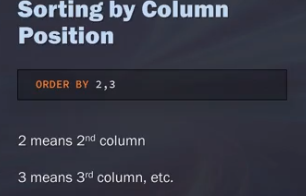
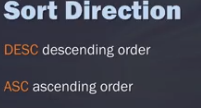
不能用于non-text类型数据



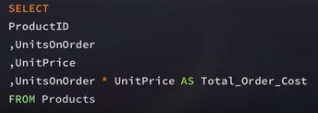
**ORDER BY**

上升或下降趋势

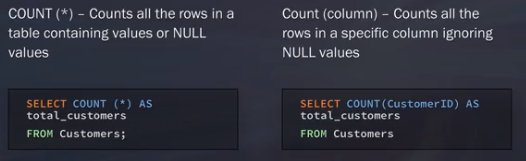
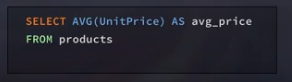
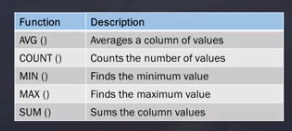
必须在select语句的最后

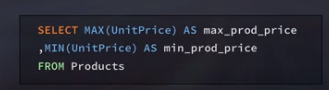


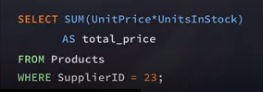
**数学运算**

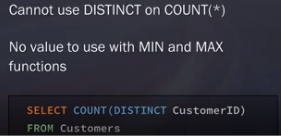


**Aggregate functions**

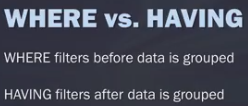
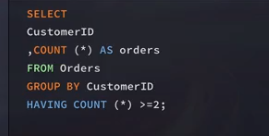


不算null values

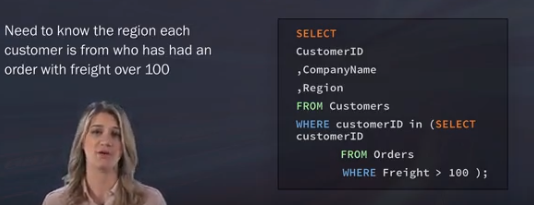




**GROUP BY HAVING**



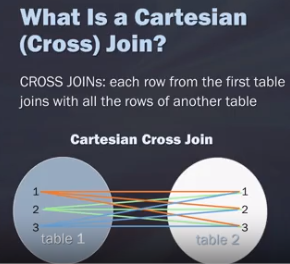
**subquery**

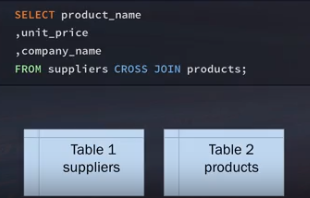


先运行subquery，再运行外面的query

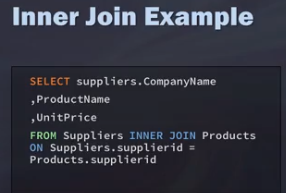
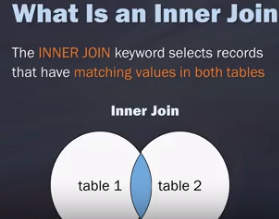
Subquery只能select一个column

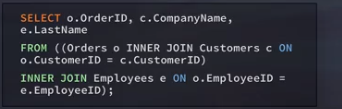
**Joins**

Cross joins

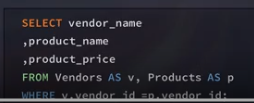
不常用

Inner joins：最常用

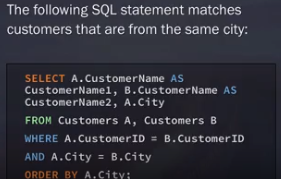


ON后面的是两个table之间的connection(matching value) prequalify table names：为了简便，可以把长单词在INNER JOIN里简化为一个字母，例如：把orders简化为o

**Aliases :简称table names**

****在FROM里用

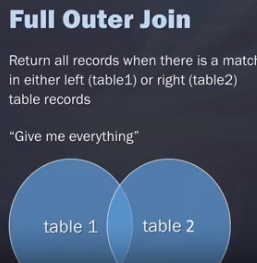
**SELF joins**

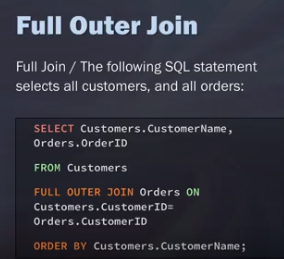
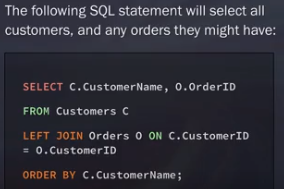


Advanced joins

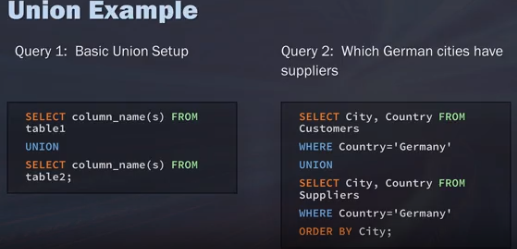
列出table1中的所有，不管他们在2中有没有相应的

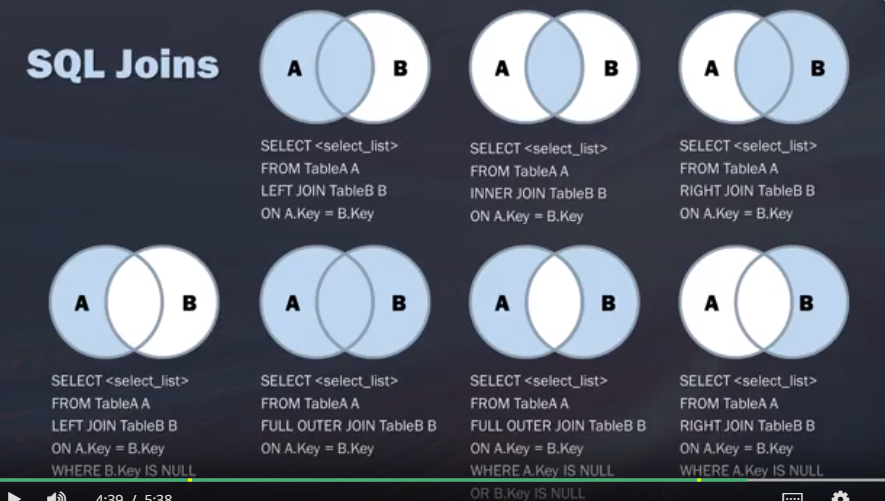




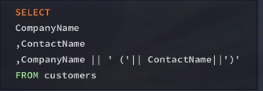


UNIONS

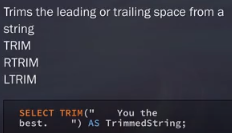




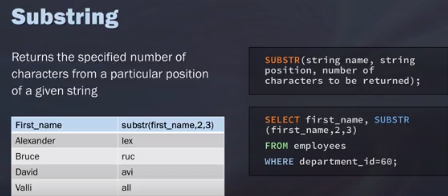
**Concatenations 整合（combine）**



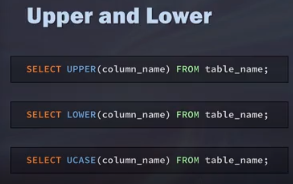
**Trim 整理**



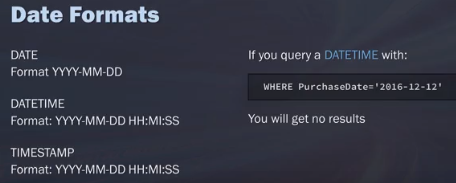
**Substring 选字符串中的某几个字母**

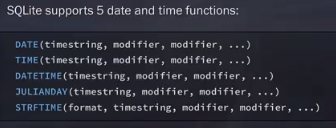


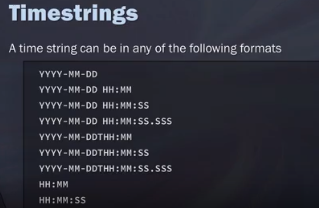
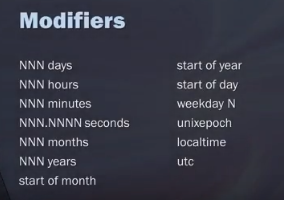
**全都变成大写字母或者小写字母**

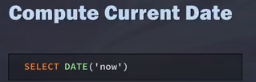
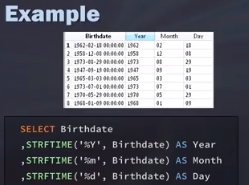
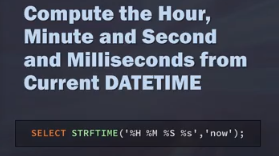
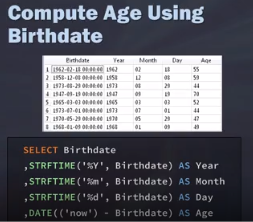
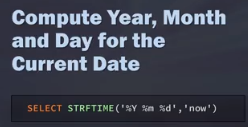
ucase是变成大写

**日期时间**

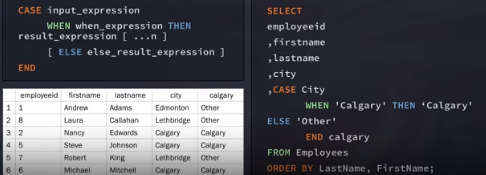
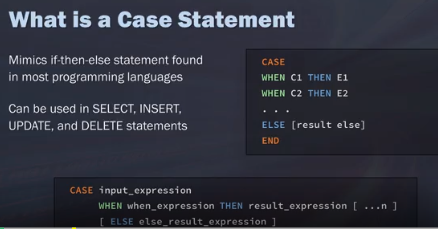


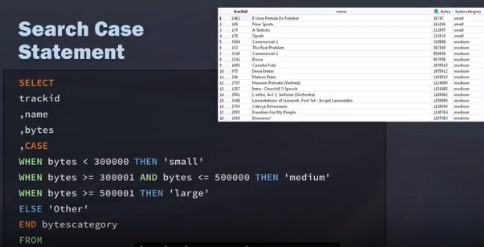


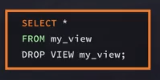
**Case statement**

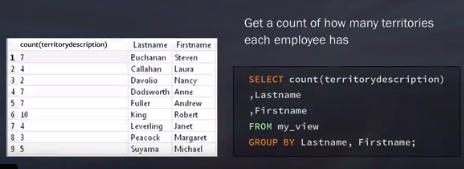
把calgary以外的都变成other



**Views**

创建一个虚拟的table

创建虚拟table之后，使用这个table，不想要的时候，等他自己消失（when database connection 断了）或者用DROP VIEW



<https://blog.sqlauthority.com/category/sql-puzzle/>

http://sqlzoo.net/