

SQLite-04.範例資料庫

大數據分析

- R/Python/Julia/SQL程式設計與應用
(R/Python/Julia/SQL Programming and Application)
- 資料視覺化 (Data Visualization)
- 機器學習 (Machine Learning)
- 統計品管 (Statistical Quality Control)
- 最佳化 (Optimization)



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大綱

- 4-1 範例資料庫 - chinook SQLite
- 4-2 範例資料庫 - Northwind SQLite

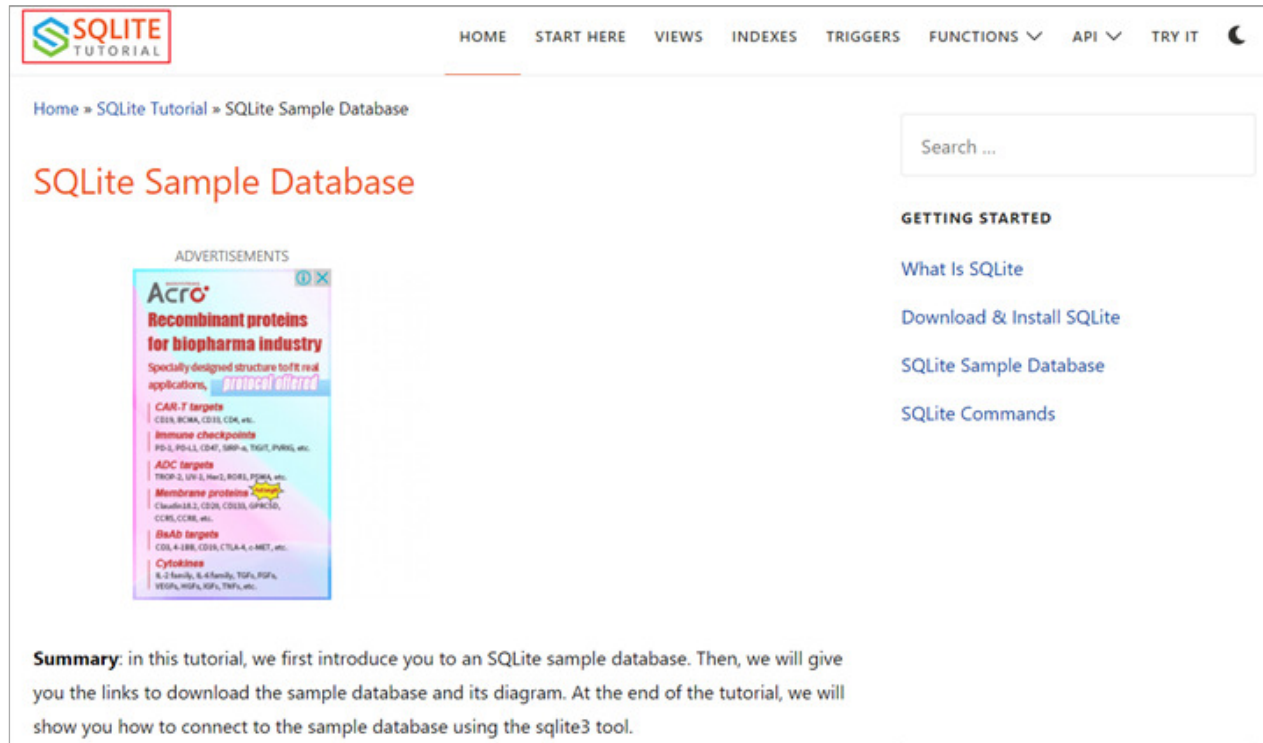
參考資料: Ming-Chang, Lee, teaching-sqlite, <https://github.com/rwepa/teaching-sqlite>, 2021.

4-1 範例資料庫 - chinook SQLite

(音樂出租資料庫)

範例資料庫 - chinook SQLite

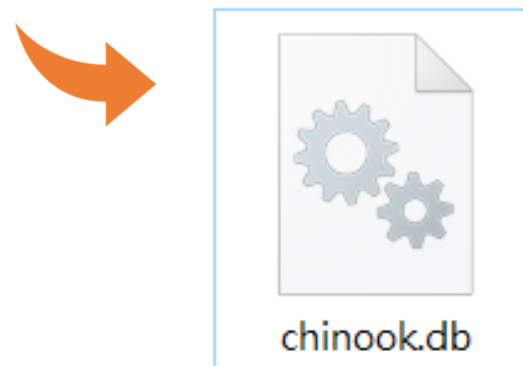
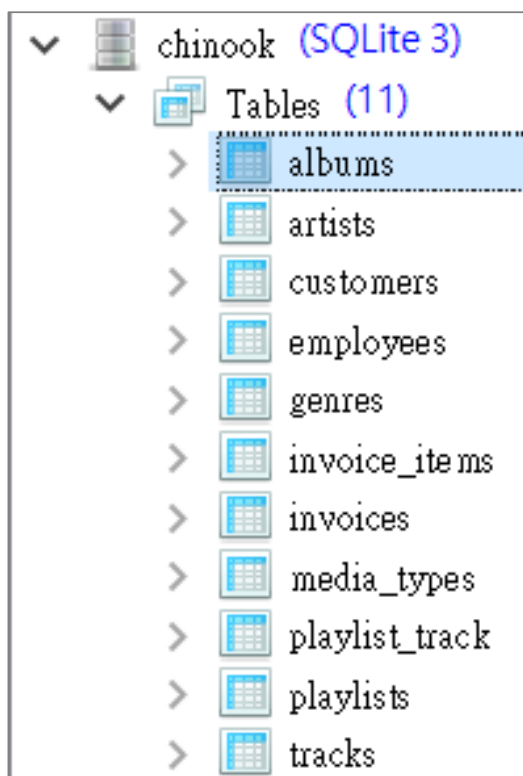
- <https://www.sqlitetutorial.net/sqlite-sample-database/>



The screenshot shows the SQLite Tutorial website. The header includes the SQLite Tutorial logo and navigation links: HOME, START HERE, VIEWS, INDEXES, TRIGGERS, FUNCTIONS, API, TRY IT, and a moon icon. The main content area has a breadcrumb trail: Home » SQLite Tutorial » SQLite Sample Database. Below this is the title "SQLite Sample Database" in orange. To the right is a search bar. Under "ADVERTISEMENTS", there is a colorful advertisement for "Acro Recombinant proteins for biopharma industry" listing various targets like CAR-T, immune checkpoints, ADC, membrane proteins, BxAd, and cytokines. At the bottom, a "Summary" paragraph states: "in this tutorial, we first introduce you to an SQLite sample database. Then, we will give you the links to download the sample database and its diagram. At the end of the tutorial, we will show you how to connect to the sample database using the sqlite3 tool."

範例資料庫 - chinook SQLite (續)

- <https://www.sqlitetutorial.net/wp-content/uploads/2018/03/chinook.zip>
- 11個資料表



使用 SQLite 直接開啟資料庫

4-2 範例資料庫 - Northwind SQLite

(北風資料庫)

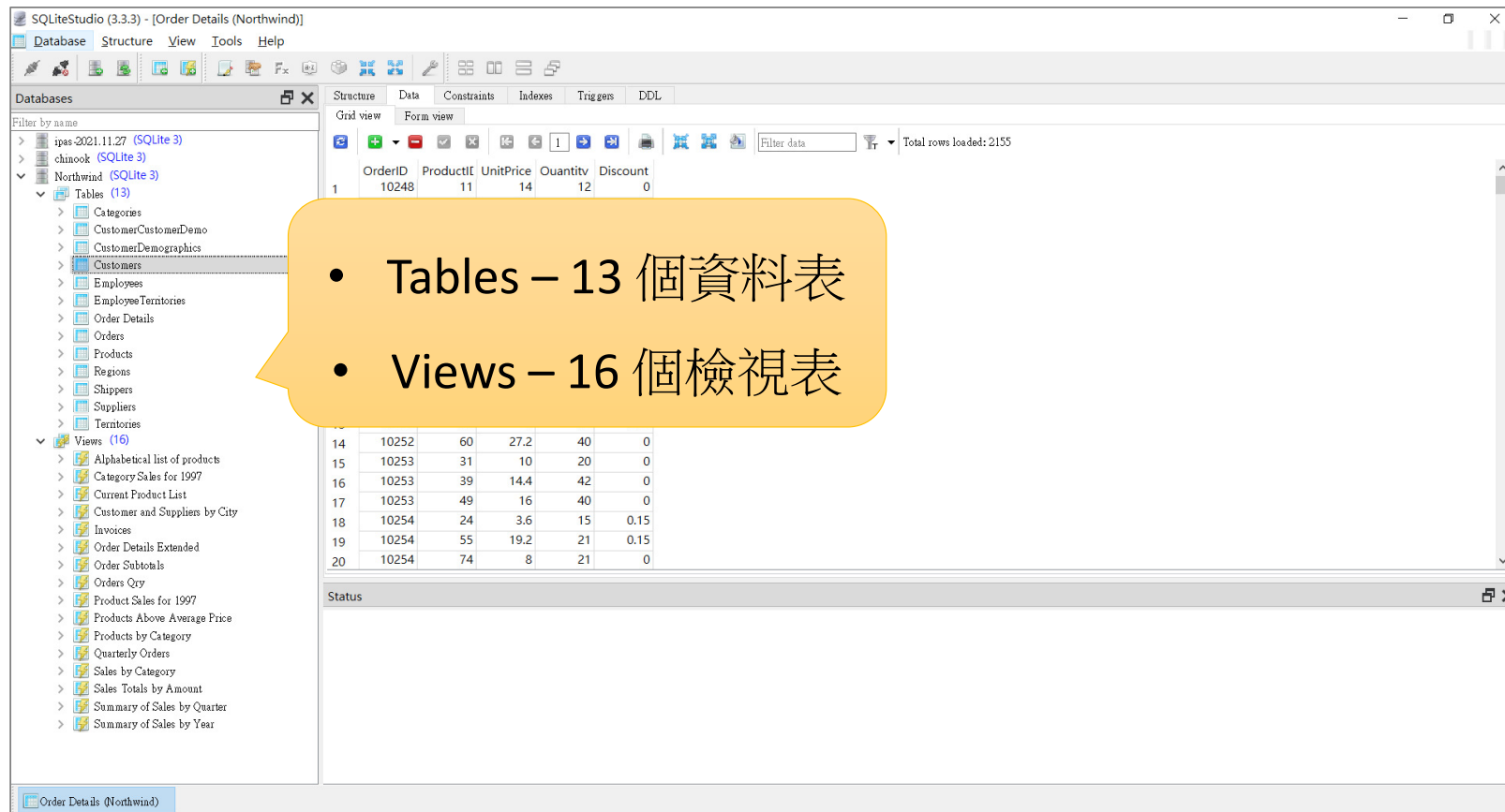
範例資料庫 – Northwind 北風資料庫

- <https://github.com/rwepa/teaching-sqlite>
- <https://github.com/rwepa/teaching-sqlite/blob/main/Northwind.sqlite>

Northwind.sqlite 北風資料庫

<https://github.com/rwepa/teaching-sqlite/blob/main/Northwind.sqlite>

Northwind 北風資料庫



SQLiteStudio (3.3.3) - [Order Details (Northwind)]

Database Structure View Tools Help

Databases

- Filter by name
- ipass-2021.11.27 (SQLite 3)
- chinook (SQLite 3)
- Northwind (SQLite 3)
 - Tables (13)
 - Categories
 - CustomerCustomerDemo
 - CustomerDemographics
 - Customers
 - Employees
 - EmployeeTerritories
 - Order Details
 - Orders
 - Products
 - Regions
 - Shippers
 - Suppliers
 - Territories
 - Views (16)
 - Alphabetical list of products
 - Category Sales for 1997
 - Current Product List
 - Customer and Suppliers by City
 - Invoices
 - Order Details Extended
 - Order Subtotals
 - Orders Qry
 - Product Sales for 1997
 - Products Above Average Price
 - Products by Category
 - Quarterly Orders
 - Sales by Category
 - Sales Totals by Amount
 - Summary of Sales by Quarter
 - Summary of Sales by Year

Structure Data Constraints Indexes Triggers DDL

Grid view Form view

OrderID ProductID UnitPrice Quantity Discount

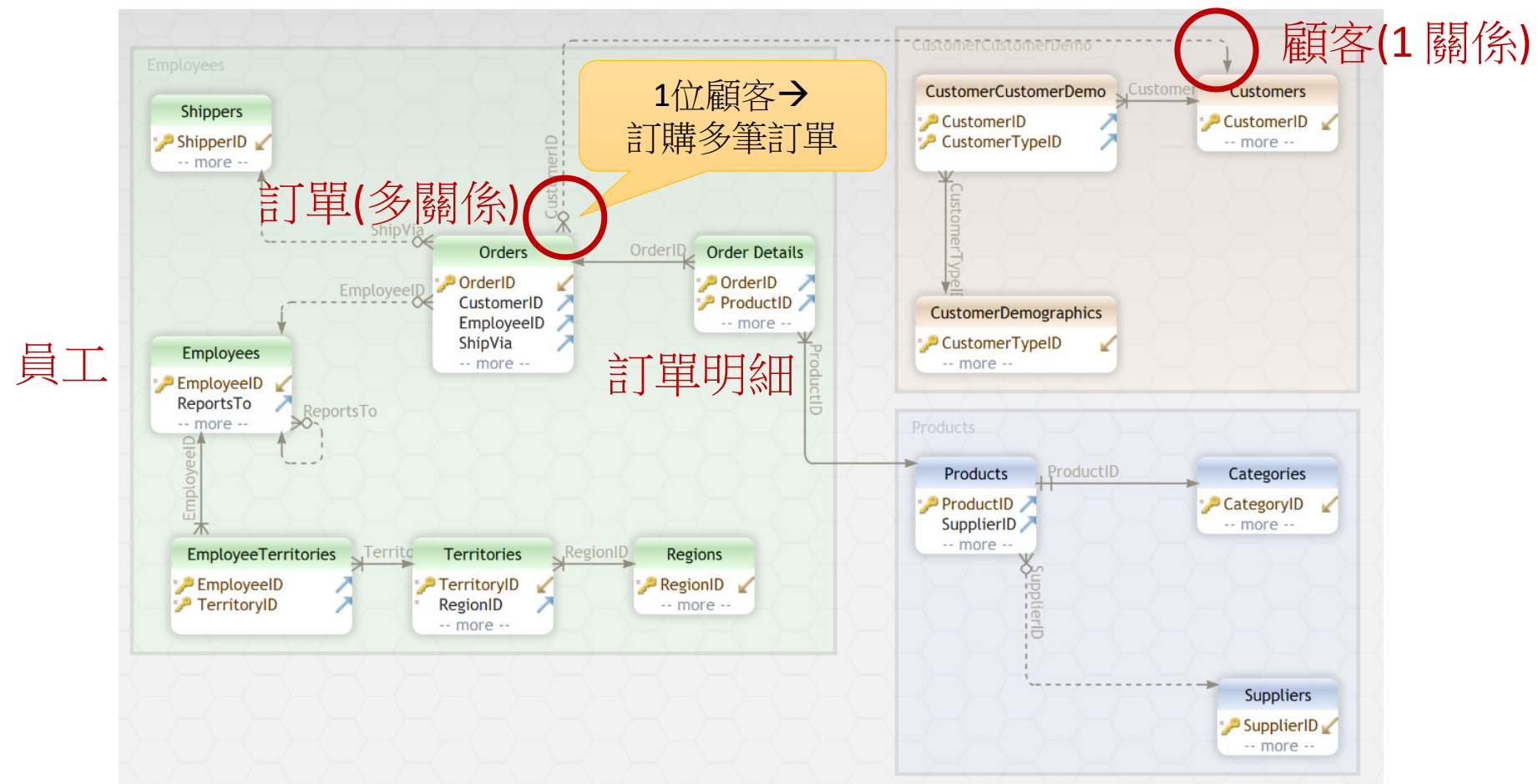
1	10248	11	14	12	0
14	10252	60	27.2	40	0
15	10253	31	10	20	0
16	10253	39	14.4	42	0
17	10253	49	16	40	0
18	10254	24	3.6	15	0.15
19	10254	55	19.2	21	0.15
20	10254	74	8	21	0

Filter data Total rows loaded: 2155

Status

- Tables – 13 個資料表
- Views – 16 個檢視表

北風資料庫 - 實體關係模型 (Entity-relationship model, ERD)



練習 SELECT

Northwind

Query History

```

1 SELECT * FROM [Order Details];
2
3 SELECT COUNT(*) FROM [Order Details]
4
5 -- 202100168 李明昌
6

```

Grid view Form view

Total rows loaded: 2155

	OrderID	ProductID	UnitPrice	Quantity	Discount
1	10248	11	14	12	0
2	10248	42	9.8	10	0
3	10248	72	34.8	5	0
4	10249	14	18.6	9	0
5	10249	51	42.4	40	0

Status

[17:02:13] Query finished in 0.003 second(s).

謝謝您的聆聽

Q & A

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