



香港電腦教育學會

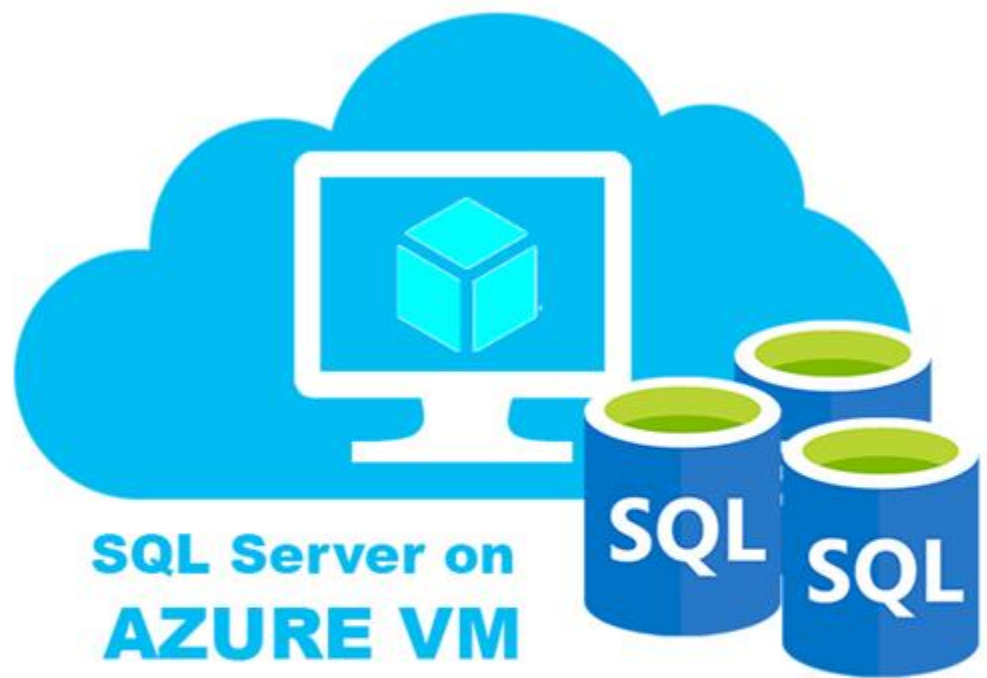
The Hong Kong Association  
for Computer Education

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香港電腦教育學會始創於**1981**年底，當時香港教育署正計劃在中學進行電腦科試驗計劃，一群熱心的老師於是組織起來，創立香港電腦教育學會。

本會積極關注「資訊科技科教育」、「**eLearning**」、「編程教育」、「**STEM**教育」、「**AI**人工智能教育」，並參與了不少有關政策的制訂及推動的工作。

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Home > SQL servers >

# Create SQL Database Server

Microsoft

Basics Networking Additional settings Tags Review + create

SQL database server is a logical container for managing databases and elastic pools. Complete the Basic tab, then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

## Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* Free Trial
Resource group \* rg-testdb-01
Create new

## Server details

Enter required settings for this server, including providing a name and location.

Server name \* powerappbsrv-01 .database.windows.net
Location \* (Asia Pacific) East Asia

## Authentication

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication using an existing Azure AD user, group, or application as Azure AD admin, or select both SQL and Azure AD authentication.

Home > SQL databases >

# Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

**Did you know** that new users in Azure can create a free Azure SQL Database and use it for 12 months using Azure free account? [Learn more](#)

## Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ

Resource group \* ⓘ  [Create new](#)

## Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

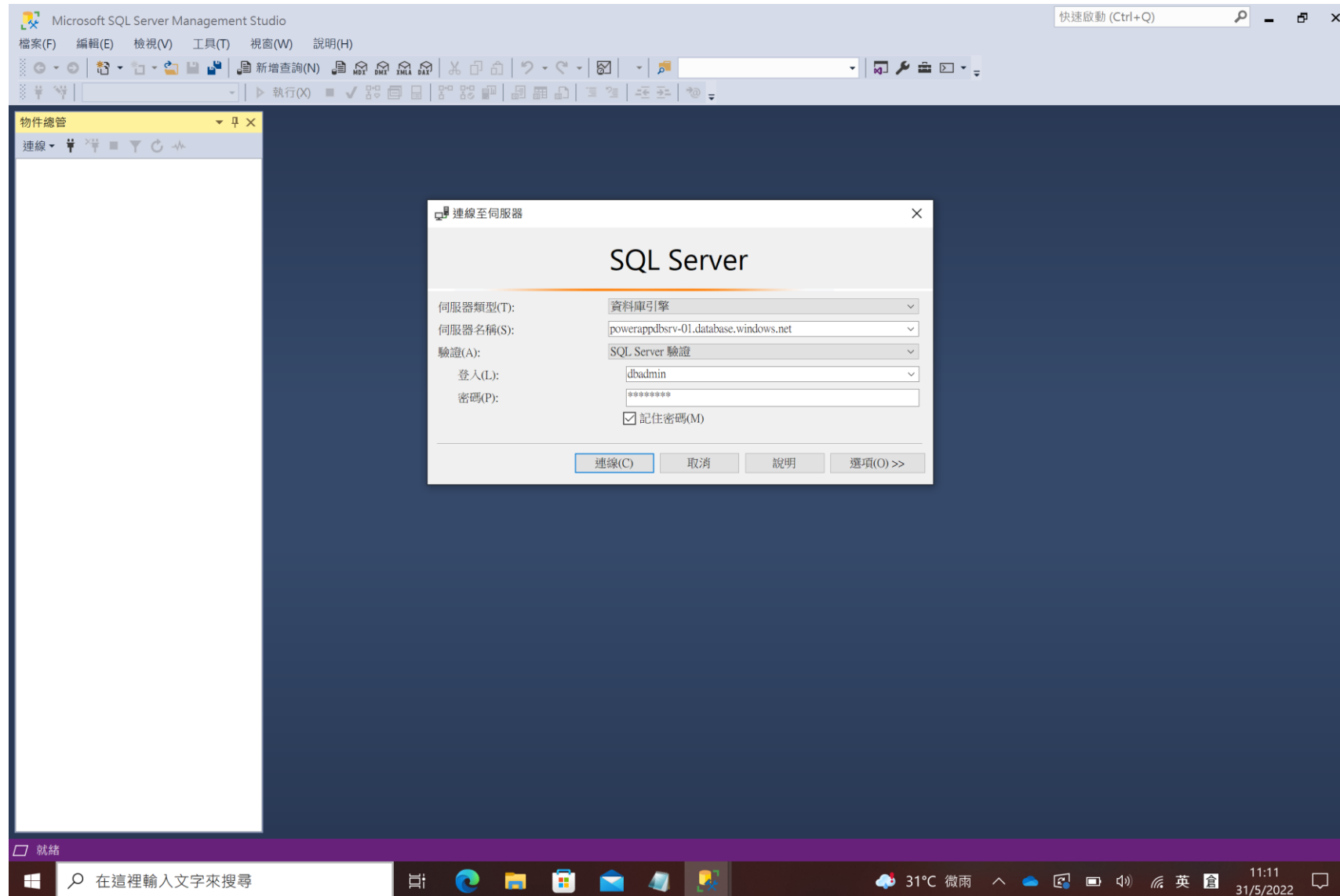
Database name \*

Server \* ⓘ  [Create new](#)

[Review + create](#)

[Next : Networking >](#)

# Logon to the database using the SQL Management Studio



# Create tables

The screenshot displays the Microsoft SQL Server Management Studio interface. The main window shows a SQL query script with the following content:

```
create table stock (  
    id int NOT NULL IDENTITY PRIMARY KEY,  
    stockname varchar(255),  
    stockdescript varchar(255),  
    stockLevel int);  
  
CREATE TABLE orders (  
    id int NOT NULL IDENTITY PRIMARY KEY,  
    stockID int NOT NULL,  
    orderDate datetime,  
    amount int,  
    description varchar(255));
```

Below the script, the execution results are shown:

```
100 %  
訊息  
命令已成功完成。  
  
完成時間: 2022-05-31T11:14:25.1997768+08:00
```

The status bar at the bottom indicates: 已成功執行查詢。 powerappdbsrv-01.database.w... dbadmin (58) testappdb-01 00:00:00 0 資料列

On the right side, the '屬性' (Properties) window is open, showing details for the connection:

| 目前的連線參數                   |                      |
|---------------------------|----------------------|
| 連線名稱 powerappdbsrv-01.dat |                      |
| 連線詳細資料                    |                      |
| SPID                      | 58                   |
| 工作階段追蹤識別碼                 | 56F046B3-652A-4024-  |
| 伺服器名稱                     | powerappdbsrv-01.dat |
| 伺服器版本                     | 12.0.41              |
| 連線加密                      | 已加密                  |
| 連線完成時間                    | 31/5/2022 11:14:25   |
| 連線狀態                      | 開啟                   |
| 連線耗用時間                    | 00:00:00.051         |
| 連線開始時間                    | 31/5/2022 11:14:25   |
| 連線傳回的資料列                  | 0                    |
| 登入名稱                      | dbadmin              |
| 顯示名稱                      | powerappdbsrv-01.dat |
| 彙總狀態                      |                      |
| 名稱                        | powerappdbsrv-01.dat |
| 完成時間                      | 31/5/2022 11:14:25   |
| 狀態                        | 開啟                   |
| 耗用時間                      | 00:00:00.051         |
| 連線失敗次數                    |                      |
| 開始時間                      | 31/5/2022 11:14:25   |
| 傳回的資料列                    | 0                    |

The Windows taskbar at the bottom shows the system tray with the date and time: 11:14 31/5/2022.

# Insert data into tables

The screenshot displays the Microsoft SQL Server Management Studio interface. The main window shows a SQL query being executed in the 'SQLQuery1.sql' file. The query consists of several INSERT statements for 'stock' and 'orders' tables. The status bar at the bottom indicates that the query was executed successfully.

```
insert into stock (stockname, stockdescript, stockLevel) values ('Vishay 400V 1A', 'The Vishay 1N4001 to 1N4007 range of', 1);
insert into stock (stockname, stockdescript, stockLevel) values ('Electrolytic Capacitor', 'RS PRO 470uF 25V dc Aluminium', 1);
insert into stock (stockname, stockdescript, stockLevel) values ('Axial Fixed Resistor', 'RS PRO RS Series Axial Fixed R', 1);

insert into orders (stockID, orderDate, amount, description) values (1, '2022-02-02', 320, 'ordered from Element-14');
insert into orders (stockID, orderDate, amount, description) values (1, '2022-03-04', 40, 'ordered from Element-14');
insert into orders (stockID, orderDate, amount, description) values (2, '2022-03-19', 50, 'ordered from RS-Online');
insert into orders (stockID, orderDate, amount, description) values (3, '2022-03-27', 20, 'ordered from RS-Online');
```

執行時間: 2022-05-31T11:16:37.0183777+08:00

已成功執行查詢。

powerappdbsrv-01.database.w... dbadmin (58) testappdb-01 00:00:00 0 資料列



# Create a new app in PowerApps

The screenshot shows the Microsoft Power Apps web interface. A modal dialog box titled "從空白開始建立畫布應用程式" (Create canvas app from scratch) is open. The dialog has a back arrow on the top left and a close 'X' on the top right. Inside the dialog, there is a central graphic showing two overlapping white rectangles representing app screens, with a purple pencil icon and a plus sign in the center. To the right of the graphic is a form with the following fields:

- 應用程式名稱 \*** (App name): A text input field containing "stocklistapp".
- 格式** (Format): Two radio button options: "平板電腦" (Tablet) which is selected, and "手机" (Mobile).

Below the graphic, there is a line of text: "設計您想要的應用程式，並將它連線至數百個資料來源。" (Design the app you want, and connect it to hundreds of data sources.) Below this text is a button with a pencil icon and the text "畫布應用程式" (Canvas app). At the bottom right of the dialog are two buttons: "建立" (Create) in a purple box and "取消" (Cancel) in a white box with a purple border.

The background interface shows the Power Apps navigation pane on the left with options like "首頁" (Home), "學習" (Learn), "應用程式" (Apps), and "建立" (Create). The top navigation bar includes a search bar and the user's environment name "環境 HKSXH Bishop Hall Sec...".

# Create database connection and import tables into PowerApps

The screenshot shows the Power Apps web interface. The top navigation bar includes the Power Apps logo and the text "Power Apps | 畫布". The main workspace is currently empty, displaying a "正在載入..." (Loading...) message. On the right side, the "SQL Server" connection configuration panel is open. It features a search bar, a list of tables to import, and a configuration section for the connection details.

**SQL Server**  
Microsoft SQL Server is a relational database management system developed by Microsoft. Connect to SQL Server to manage data. You can perform various actions such as create, update, get, and delete on rows in a table.

**Authentication type**  
SQL Server Authentication

直接連線 (雲端服務)  
 使用內部部署的資料閘道連線

**SQL server name \***  
powerappdbsrv-01.database.windows.net

**SQL database name \***  
testappdb-01

**Username \***  
dbadmin

**Password \***  
.....

**Buttons:** 連接, 取消

The "選擇資料表" (Select Tables) dialog box is shown on the right. It contains a search bar and a list of tables with checkboxes for selection. The "orders" and "stock" tables are selected, while "sys.database\_firewall\_rules", "sys.ipv6\_database\_firewall\_rules", and a custom table name are not.

**選擇資料表**

搜尋

- orders
- stock
- sys.database\_firewall\_rules
- sys.ipv6\_database\_firewall\_rules
- 輸入自訂資料表名稱

**Buttons:** 連接, 取消

# Add a gallery to list order items

The screenshot displays the Microsoft Power Apps canvas editor interface. At the top, the browser address bar shows the URL: `https://make.powerapps.com/e/Default-b6158e77-188b-434d-9243-945022c01a56/canvas/?utm_source=PAMarketing&utm_mediu...`. The Power Apps header includes the text "Power Apps | 畫布" and a search bar. The environment is identified as "環境 HKSKH Bishop Hall Sec...".

The main canvas area shows a gallery control named "Items" with the formula `fx CustomGallerySample`. A "選擇資料來源" (Select Data Source) dialog box is open, displaying a search bar and a list of data sources under the heading "在您的應用程式" (In your application). The listed sources are:

- orders  
SQL Server - testappdb-01 powera...
- stock  
SQL Server - testappdb-01 powera...

Below the list, there are options for "表格" (Table) and "接點" (Connector). The right-hand pane shows the "Gallery2" properties, including "資料來源" (Data source) set to "無" (None), "版面配置" (Layout) set to "影像、標題與子標題" (Image, title, and subtitle), and "可見" (Visible) set to "開啟" (On).

The left-hand pane shows the "插入" (Insert) menu with various controls like "文字標籤" (Text label), "編輯表單" (Edit form), "文字輸入" (Text input), "垂直資源庫" (Vertical resource library), "矩形" (Rectangle), "日期選擇器" (Date picker), "按鈕" (Button), "輸入" (Input), "顯示" (Display), "版面配置" (Layout), "媒體" (Media), "圖示" (Icons), "圖案" (Patterns), "圖表" (Charts), and "AI Builder".

# Show the stock name from stock table by the stock ID

The screenshot shows the Microsoft Power Apps editor interface. At the top, the browser address bar displays the URL: `https://make.powerapps.com/e/Default-b6158e77-188b-434d-9243-945022c01a56/canvas/?utm_source=PAMarketing&utm_mediu...`. The Power Apps header includes the environment name "環境 HKSXH Bishop Hall Sec...".

The main workspace contains a text label with the following formula: `LookUp(stock, id = ThisItem.stockID, stockname)`. A yellow warning banner above the label reads: "您正在使用一或多個隱含的共用連線。 深入了解".

Below the formula, a data preview window shows the results of the `LookUp` function. It displays a list of items with the text "ordered from Element-14" and "ordered from RS-Online".

The right-hand pane shows the "屬性" (Properties) section for the selected text label. The "文字" (Text) property is set to "無任何值". The "字型" (Font) is "Open Sans", and the "字型大小" (Font size) is "20". The "字型粗細" (Font weight) is "B 半粗體". The "文字對齊" (Text alignment) is set to "左對齊" (Left). The "自動高度" (Auto height) is turned off. The "行高" (Line height) is "1.2". The "Overflow" property is set to "隱藏" (Hidden), and the "顯示模式" (Display mode) is "編輯" (Edit).

The bottom of the screen shows the "插入" (Insert) pane on the left, the "取得更多元件" (Get more components) button, and the "Screen1", "Gallery1", and "Title2" tabs. The zoom level is set to "40 %".

# Add other fields and format the list

The screenshot shows the Microsoft Power Apps interface. At the top, there are browser tabs and a URL: [https://make.powerapps.com/e/Default-b6158e77-188b-434d-9243-945022c01a56/canvas/?utm\\_source=PAMarketing&utm\\_mediu...](https://make.powerapps.com/e/Default-b6158e77-188b-434d-9243-945022c01a56/canvas/?utm_source=PAMarketing&utm_mediu...). The Power Apps header is in purple, displaying "Power Apps | 畫布" and the environment "HKSKH Bishop Hall Sec...".

The ribbon contains various tool groups. The "Insert" (插入) group is active, showing a search bar and a list of components: 文字標籤 (Text Label), 編輯表單 (Edit Form), 文字輸入 (Text Input), 垂直資源庫 (Vertical Resource Library), 矩形 (Rectangle), 日期選擇器 (Date Picker), 按鈕 (Button), 輸入 (Input), 顯示 (Display), 版面配置 (Layout), 媒體 (Media), 圖示 (Icons), 圖案 (Patterns), 圖表 (Charts), and AI Builder. The "Fill" (填充) property is set to "White".

The main canvas displays a table with the following data:

| Item                   | Order Description       | Order Date | Amount |
|------------------------|-------------------------|------------|--------|
| Vishay 400V 1A         | ordered from Element-14 | 02-02-2022 | 320    |
| Vishay 400V 1A         | ordered from Element-14 | 04-03-2022 | 40     |
| Electrolytic Capacitor | ordered from RS-Online  | 19-03-2022 | 50     |
| Axial Fixed Resistor   | ordered from RS-Online  | 27-03-2022 | 20     |

The right-hand pane shows the "Screen1" property pane with tabs for "屬性" (Properties), "進階" (Advanced), and "構想" (Ideas). The "Fill" property is set to "White". Other properties like "Background Image" (背景影像) and "Image Position" (影像位置) are also visible.

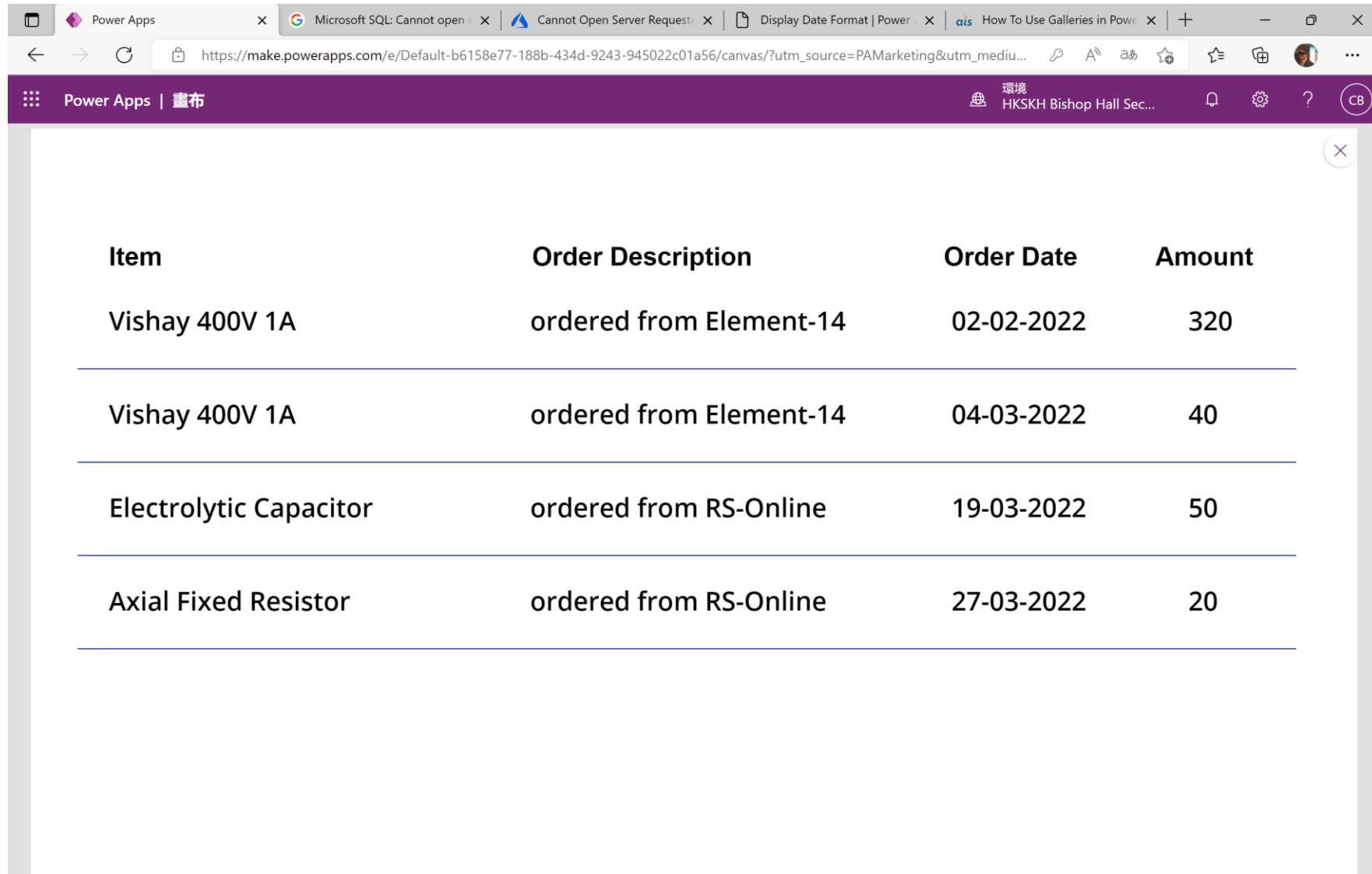
# Add other fields and format the list

The screenshot shows the Microsoft Power Apps canvas editor. The main canvas displays a table with the following data:

| Item                   | Order Description       | Order Date | Amount |
|------------------------|-------------------------|------------|--------|
| Vishay 400V 1A         | ordered from Element-14 | 02-02-2022 | 320    |
| Vishay 400V 1A         | ordered from Element-14 | 04-03-2022 | 40     |
| Electrolytic Capacitor | ordered from RS-Online  | 19-03-2022 | 50     |
| Axial Fixed Resistor   | ordered from RS-Online  | 27-03-2022 | 20     |

The interface includes a top navigation bar with the text "Power Apps | 畫布" and "環境 HKSKH Bishop Hall Sec...". Below the navigation bar is a ribbon with various tools and options. The right-hand side of the screen shows the "屬性" (Properties) pane for the selected element, with tabs for "屬性", "進階", and "構想". The "屬性" tab is active, showing options for "填滿" (Fill) and "背景影像" (Background Image).

# Run the app



The screenshot shows a web browser window with multiple tabs. The active tab is a Power Apps canvas app. The app displays a gallery with four rows of data. The table has four columns: Item, Order Description, Order Date, and Amount. The data is as follows:

| Item                   | Order Description       | Order Date | Amount |
|------------------------|-------------------------|------------|--------|
| Vishay 400V 1A         | ordered from Element-14 | 02-02-2022 | 320    |
| Vishay 400V 1A         | ordered from Element-14 | 04-03-2022 | 40     |
| Electrolytic Capacitor | ordered from RS-Online  | 19-03-2022 | 50     |
| Axial Fixed Resistor   | ordered from RS-Online  | 27-03-2022 | 20     |