資料庫應用-SQLSERVER

資料庫是有組織的資料集合,用於儲存和管理資訊,如同電子檔案櫃。



為何需要資料庫?

- **1** 組織資料 方便查找、更新和管理資料。
- 2 共享資料 多個使用者可同時存取資訊。
- **3** 確保一致性 避免資料重複或錯誤。
- 4 提高安全性 保護資料不被非法存取。





資料庫組成

資料表

儲存特定類型資料的基本單位,包含欄位和記錄。

索引

加速資料查詢的特殊結構。

關聯

建立資料表之間的聯繫。

檢視

簡化查詢的虛擬表。

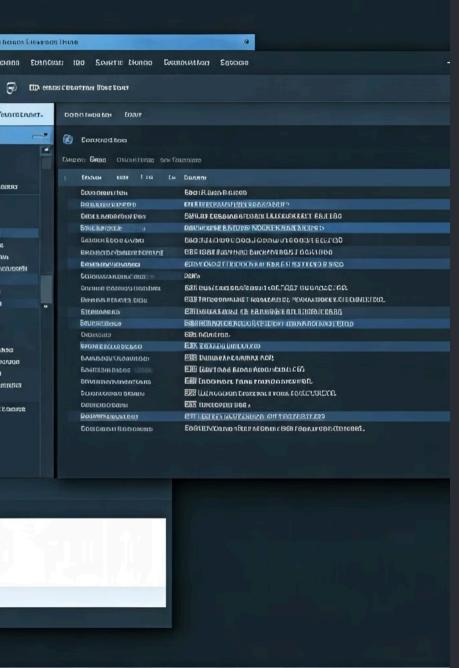
Excel 與資料庫的比較

Excel

適合個人、小型資料、簡單分析和報表製作。

資料庫

適合企業級、大型資料、安全性高,需專業知識。



安裝 SSMS

SSMS 是一款圖形化管理工具,用於連接和管理 SQL Server 資料庫。

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SSMS 的功能

- 2 強大查詢編輯器 撰寫複雜 SQL 查詢,並以圖表呈現結果。

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建立資料庫物件

建立資料庫 在 SSMS 中新增資料庫。 建立資料表 設計資料表的欄位和資料類型。 插入資料 3 輸入或使用 INSERT INTO 指令新增資料。



查詢資料

使用 SELECT 指令從資料庫提取資料,並可進行篩選、排序等操作。

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