

# CH10 新增，更新與刪除

## insert/select

1. 建立通訊錄表單

```
create table Contacts(  
    employee_id INT PRIMARY KEY,  
    name NVARCHAR(100) NOT NULL,  
    email NVARCHAR(100),  
    phone NVARCHAR(20)  
)
```

2. 將員工表單加入到通訊錄(ch10\_2\_3a)

```
insert into Contacts  
select name ,email ,phone  
from employees
```

3. 欄位名稱不同呢

```
create table Contacts2(  
    contact_id INT PRIMARY KEY IDENTITY(1,1),  
    contact_name NVARCHAR(100) NOT NULL,  
    email NVARCHAR(100),  
    mobile NVARCHAR(20)  
)
```

## select into(ch10\_2\_4a, 4a)

1. 建立 product\_notobook 表單

```
select * into product_notebook  
from products  
where category_id = 1
```

## update

1. 新增欄位 [Employees][dept\_id] [int]
2. 建立部門表單

dept_id	dept_name
1	行銷
2	業務
3	開發

dept_id	dept_name
4	公關

3. 使用 SSMS 將每個員工加入部門(10\_3\_1)
4. 加入三名新員工，不指定部門單位，新增完成後指派到各部門

```
update Employees set dept_id =3 where name='妙麗'
```

```
-- 將妙麗調到行銷部(使用子查詢)(10_3_2)
update Employees
set dept_id =(select dept_id from Departments where dept_name = '行銷')
where name='妙麗'
```

修改產品價格並更新訂單明細

1. orderDetail 表單 product\_id 重複的商品
2. 修改 products 表單 product\_id 的商品價格
3. 更新 orderDetail 單價及總價

```
update OrderDetails2
set unit_price = (select price from products where product_id = 20), subtotal = unit_price *
quantity
where product_id = 20
```

--

## Delete 10\_4\_1

## MERGE 10\_5a

```
CREATE TABLE NewProducts (
    product_id INT PRIMARY KEY,
    product_name NVARCHAR(200) NOT NULL,
    category_id INT,
    price DECIMAL(10, 2) NOT NULL,
    stock INT NOT NULL DEFAULT 0,
    created_at DATETIME DEFAULT GETDATE(),
    CONSTRAINT FK_Products_Categories_2 FOREIGN KEY (category_id) REFERENCES
Categories(category_id)
);

INSERT INTO NewProducts (product_name, category_id, price, stock)
VALUES
-- 筆記型電腦
(N'ASUS VivoBook 16', 1, 10000, 15),
(N'Acer Swift 8', 1, 10000, 10),
(N'MSI Modern 15', 1, 10000, 8),
(N'Apple MacBook Air M3', 1, 10000, 12)
```

```
merge products as p          --將 NewProducts 合併到 products
using NewProducts as np
on p.product_id = np.product_id
when matched then
    update set
        product_name = np.product_name,
        category_id = np.category_id,
        price = np.price,
        stock = np.stock
when not matched by target then
    insert (product_name, category_id, price, stock)
    values (np.product_name, np.category_id, np.price, np.stock);
```