

銘傳大學 95 學年度轉學生招生考試

資訊管理學系、資訊管理學系國際班

7 月 26 日第三節

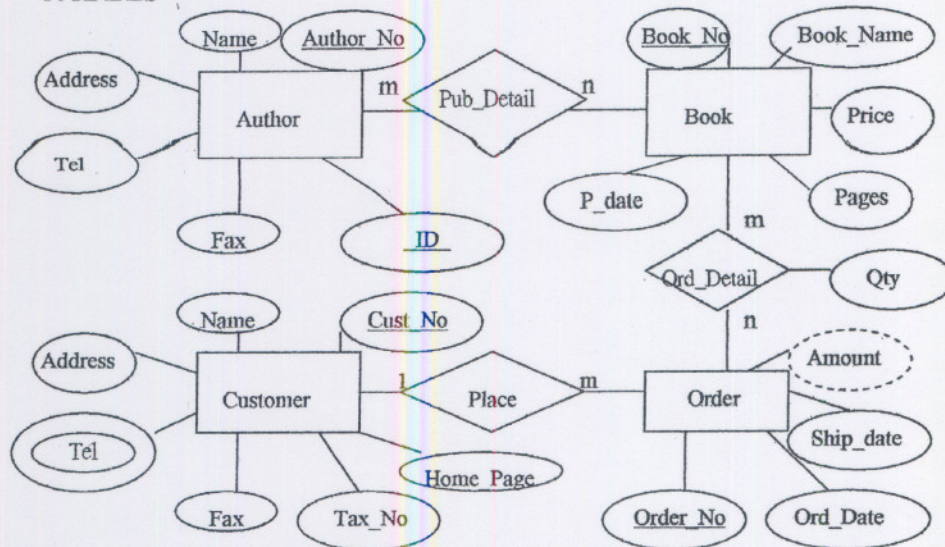
(第 / 頁共 2 頁)

資料庫管理試題

(限用答案本作答)

每題 25 分，四題共 100 分

1. Please describe the wait-die and wound-wait protocols, and prove that the wait-die and wound-wait protocols can avoid deadlock. 在預防死結(dead lock)的機制中，有兩個協定分別是：wait-die 及 wound-wait，(1)請解釋何謂 wait-die 及 wound-wait? (2)解釋何以採此協定即可保證不會發生死結?
2. Please use the mapping rules to transform the ER diagram into the Relational database schema 依照 mapping 規則將下面的 E/R 圖轉為關聯式資料庫的 TABLEs。



3. There is a home video table shown as below. Please use the Normalization techniques to transform the table into Relational schema tables in 3NF.

某錄影帶店提供了一張有關錄影帶相關資料的表單如下，請將下表轉成符合第三階正規化(3NF)的關聯表，並註明主索引(Primary Keys)、外來鍵(Foreign key)。

代碼 (ID)	片名 (Title)	導演 (Director)	導演拍片量 (D-QTY)	主角代碼 (Actor-ID)	主角姓名 (Actor-Name)	扮演角色 (Role)	片長 (Time)
V0001	Who am I	Y.S. Liu	12	A0105 A0206	Hun Che Y.E. Chang	C.C. Cheng C. Y. Lin	126
V0002	Forever Day	L.L. Chen	8	A0101 A0101 A0206	Lan Wang Lan Wang Y.E. Chang	Evan Chang Min Lee Dany Cheng	130
V0003	God	Y.S. Liu L.L. Chen	12 8	A0105 A0101	Hun Che Lan Wang	Tony Liu Wen Tan	112

銘傳大學 95 學年度轉學生招生考試

資訊管理學系、資訊管理學系國際班

7 月 26 日第三節

(第 2 頁共 2 頁)

資料庫管理試題

(限用答案本作答)

4. Assume that Catalog is the relationship set between the Suppliers and Parts entities, the cardinality is many-to-many. Please use SQL to answer the following questions.

假設有供應商(Suppliers)與供應的零件(Parts)實體關係(Catalog)為多對多，結構如下，請以 SQL 回答下列問題。

Suppliers(sid, sname, address)

Parts(pid, pname, color)

Catalog(sid, pid, cost)

- (1) Find the Supplier names of the suppliers who supply a red part that costs less than 100 dollars.
找出有供應紅色零件，且成本價(cost)低於 100 元的供應商名字。
- (2) Find the Supplier names of the suppliers who supply a red part that costs less than 100 dollars and a green part that costs less than 100 dollars.
找出有供應紅色及綠色零件，且成本價(cost)低於 100 元的供應商編號。
- (3) Find the most expensive part (pid and pname) that supplied by supplier sname='xxx'.
找出由供應商 xxx 供應的最貴之零件編號及零件名稱。

本試題兩面印刷

試題完