

# 資料庫系統



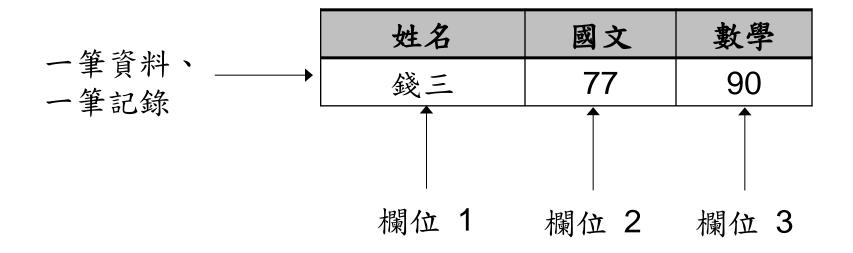
一個資料庫就是一群有關係的資料所成的 集合。

資料表: 學生成績

姓名	國文	數學
錢三	77	90
李四	82	84
王五	78	72
趙六	77	63



在這個學生成績資料表裡,每一個學生的資料存 於每一列,稱為一筆記錄,而每一筆記錄內,都 有3個欄位。





透過資料庫查詢語言,我們可以對資料庫 做一系列的運算。

■ 比如說資料表的建立。

欄位	名稱	資料型態	長度	關鍵字
1	姓名	字元	3	是
2	國文	整數		否
3	數學	整數		否

```
CREATE TABLE 學生成績 (
 姓名 char(3) PRIMARY KEY,
 國文 int,
數學 int
```



#### ■ 横列的子集 (擷取)

SELECT 姓名, 國文, 數學
FROM 學生成績
WHERE 國文 = 77;

姓名	國文	數學
錢三	77	90
趙六	77	63



#### ■ 行的子集 (擷取)

SELECT 姓名,數學 FROM 學生成績;

姓名	數學
錢三	90
李四	84
王五	72
趙六	63



#### ■插入一筆新的資料

INSERT INTO 學生成績
VALUES('孫七', 85, 92);

姓名	國文	數學
錢三	77	90
李四	82	84
王五	78	72
趙六	77	63
孫七	85	92



#### ■ 更新資料

UPDATE 學生成績
SET 數學 = 87
WHERE 姓名 = '孫七';

姓名	國文	數學
錢三	77	90
李四	82	84
王五	78	72
趙六	77	63
孫七	85	≥ <sub>87</sub> ≥



#### ■刪除資料

# DELETE FROM 學生成績 WHERE 國文 77;

#### ▶刪除前:

姓名	國文	數學
錢三乙	77	<b>&lt;</b> 90
李四	82	84
王五	78	72
趙六乙	77	<b>&lt;</b> 63
孫七	85	87

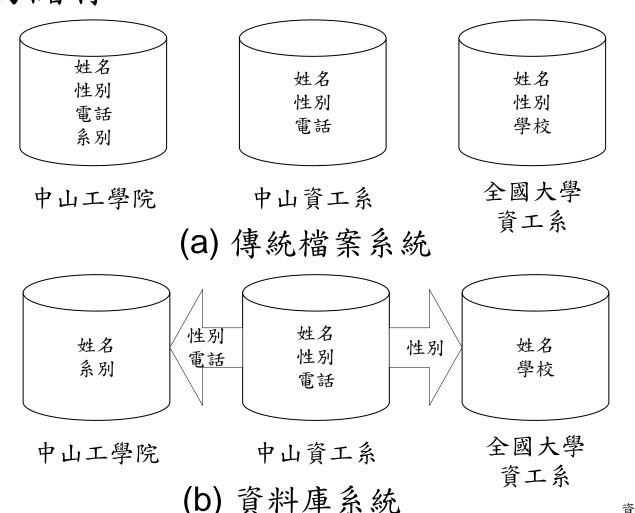
#### ▶刪除後:

姓名	國文	數學
李四	82	84
王五	78	72
孫七	85	87





一個資料庫系統能提供資料分享、整合、 一致性、標準化、安全限制及避免重覆資 料的儲存。





# Call for Paper System

- 系統描述:這個系統適用在研討會,可用來記錄投稿者、 評審委員和 paper 的資料。使用者投稿的時候,需要 3 個 步驟:
- Step 1: 註冊帳號
  - 上網登記相關資料,包括自己的 Salutation (Dr./ Prof./ Ms./ Mrs./ Mr.)、Name、Email、Affiliation (Dept. of CSE, NSYSU),和填寫密碼。
- Step2:註冊論文
  - 使用 Email 和密碼登入系統之後,填寫paper 的 Title、Workshop (DB/NW/OS)、Abstract。完成註冊論文之後,系統會回傳一個 paper code,這個號碼是唯一的,每個 paper 都有個別的 paper code。之後,系統會回傳一封 Email 給使用者正式告知 paper code。
- Step3:上傳論文
  - 將論文的電子檔命名為 [paper code].pdf 上傳到系統。之後,系統會回傳 一封 Email 告知使用者此篇 paper 已經上傳成功。
  - 接下來,每篇 paper 會給 3 個評審委員審查。評審委員審查的結果亦用此 系統提供的格式填字送回。之後,每篇 paper 的作者可以登入系統查看 paper 的審查結果(但無法看到評審委員的名字)。

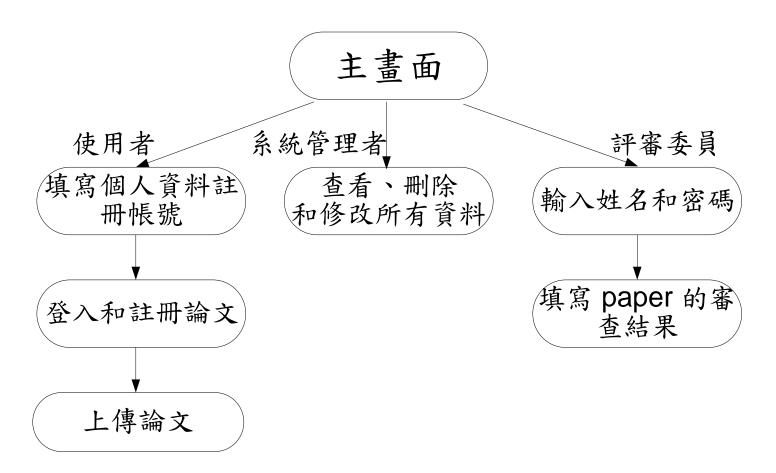


#### ■ 系統功能:

- 1. 使用者可以填寫個人和 paper 的資料。
- 2. 使用者註冊論文之後,會得到一個 paper code, 是唯一的。系統也會傳送 Email 正式告知 paper code。
- 3. 使用者登入系統之後,上傳論文電子檔[paper code].pdf。系統也會傳送 Email 正式告知 paper 已經 submit 成功。
- 4. 使用者登入系統之後,可以查看 paper 的審查結果。
- 5. 系統管理者可以查看、刪除和修改所有資料。
- 6. 系統管理者指派三個評審委員來審查一篇論文。
- 7. 評審委員輸入密碼之後,填寫 paper 的審查結果。

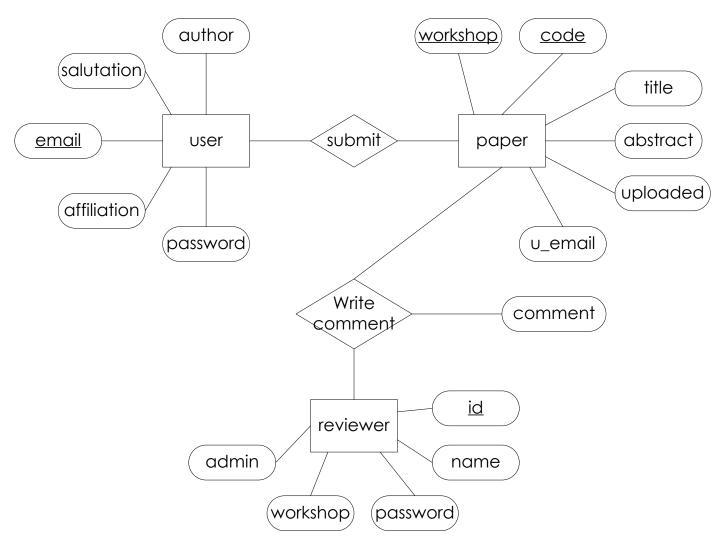


## 系統架構圖



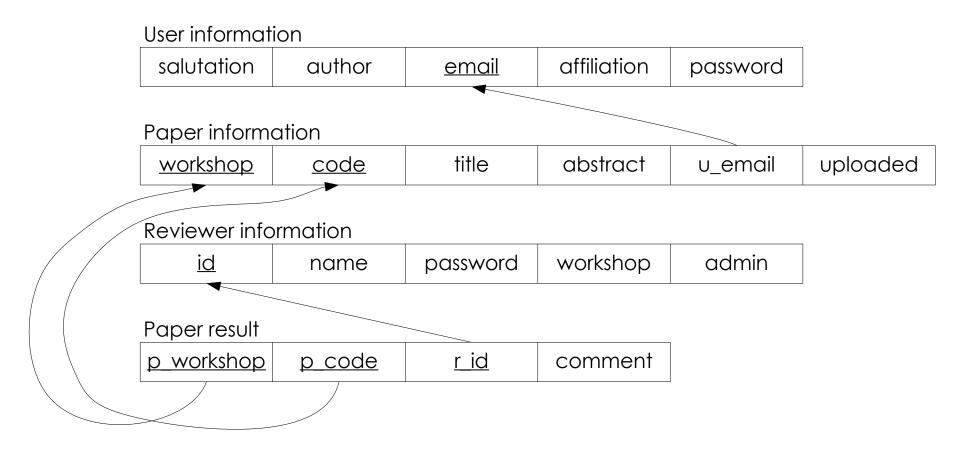


### **ER-Model**





### Relational Tables

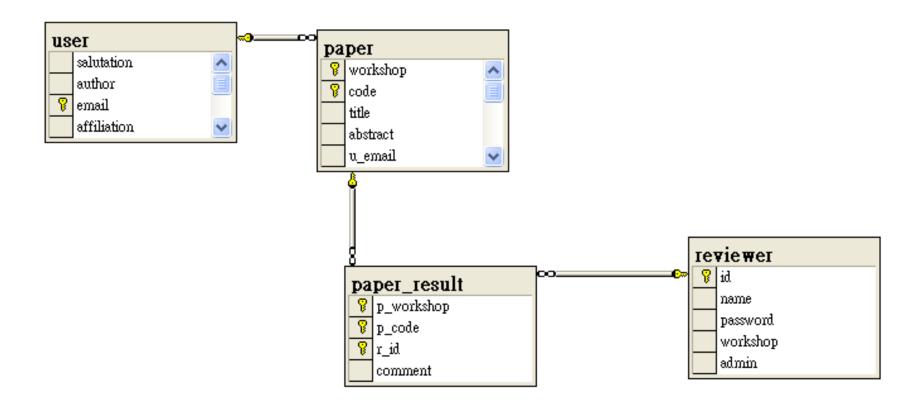


# 實際在SQL Server 2000中的資料表

	Design Table 'use			A CONTRACTOR OF THE PARTY OF TH		â	Design Table 'pap	er' in 'webdb'	on 'ERI	C' 📑 [	
	Column Name	Data Type	Length	Allow Nulls	^		Column Name	Data Type	Length	Allow Nulls	^
•	salutation	varchar	5			<b>▶</b> 8	workshop	char	2		ī
	author	varchar	50			_	code	smallint	2		
ß	email	varchar	50			Ť	title	varchar	100		
	affiliation	varchar	50			Н	abstract	varchar	500		
	password	varchar	10		v	-	u_email	varchar	50		
<b>%</b>	Design Table 'rev	iewer' in 'web	dh' on '		×		uploaded	bit	1		×
	besign rubte for				الما	100	n Design Table 'pa	anor recult in	webd	h' 🖃 🗀	1100
	Column Name	Data Tyme	Length	Allow Nulls	^		n peagn rube h	thei Tiesarr III	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ے رہے۔۔۔۔	
	Column Name	Data Type varchar		Allow Nulls	^		Column Name	Data Type		th Allow Null	and the last of
▶8	id	varchar	10	Allow Nulls	<b>*</b>						and the last of
	id name	varchar varchar	10 50	Allow Nulls	<	<u> </u>	Column Name	Data Type	Leng		and the last of
	id	varchar	10	Allow Nulls		<u>                                   </u>	Column Name	Data Type char	Leng 2		and the last of



# 在SQL Server 2000中的關連





# 系統畫面



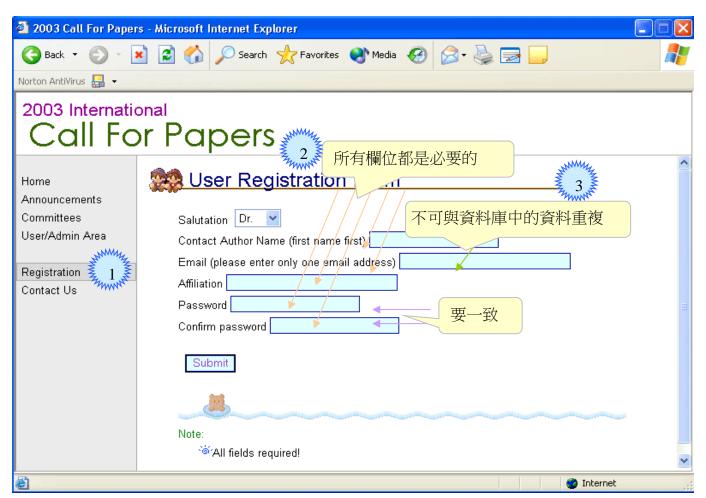
# 主畫面

2003 Call For Papers	s - Microsoft Internet Explorer			
(金) 上一頁 ▼ (金) ▼	💌 💈 🚮 🔎 搜尋 🦟 我的最愛 💜 媒體 🚱 🛜 🕞 📴 🥌			
Google -	▼ 🍪 搜尋網頁 💽 查詢網址 🕴 網頁詳情 ▼ 🙋 高階 🔻 🥒 標明			
Norton AntiVirus 🛺 🕶				
2003 International				
Call Fa	or Papers			
Canre	л т арстз			
Home	User / Reviewer / Administrator Login			
Announcements				
Committees				
User/Admin Area	Login As User 💌			
	Login ID*			
Registration	Password Submit			
Contact Us				
	You have been successfully logged out!			
	Note:			
	User: Please sign in with your registered e-mail address			
	Reviewer / Administrator: Please sign in with your ID			
€ 完成	● 網際網路			



### 使用者功能

■使用者註册



資料庫簡介 - 20



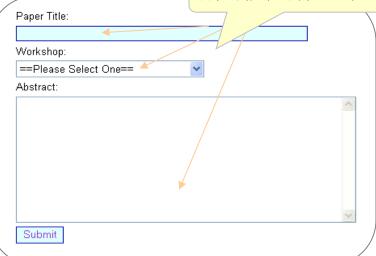
### ■ 使用者登入畫面





### 使用者功能表

#### 所有欄位都是必要的



#### 按這裡看評論/上傳paper

pelow is	от рар	of papers that you have been regi	
View Deta	aperCode	Title	
View	DB2	An improvement of the Cor Broadcasting in sdfdafadac	
View	DB3	test title 1	
View	NVV4	This is another one test pa	
View	NW13	Uploaded?	



ou are currently logged in as ericshung@pchome.com.tw Register Paper | List my Registered Papers | Logout

Welcome to the user's area
If this is your first time here, please read the following notes carefully

登出

- 9 What can I do here? I can
  - Submit my paper registration -- by the "Register Paper" link above
  - <u>View the list of my registered paper</u> (s)-- by the "List my Registered Papers" link above. You can also view the <u>detail of your registered paper</u>, <u>upload your paper</u>, and <u>see the reviewers' comments</u> in this area.

使用者登入帳號

Important Notes:

Please logout the site by clicking the "Logout" link above. Otherwise other people might get a chance to modify your data.

給使用者的介紹



# 上傳論文和看審查結果

Title	Abstract	Uploaded
This is another one test paper	This paper is only for testing purpose.	False
		出現上傳paper的欄
Select the file :		判斷是否命名為他的
Upload this file NOW	[paperco	de].pdf的檔名

Abstract	Uploaded	
new algorithm	True	
	當true時comments	
Reviewers' Comments		
ments!	或是狀態訊息	
new idea.		
seful!!		
	new algorithm ments!	

資料庫簡介 - 23



# 系統管理者功能

■ 系統管理者登入畫面

2003 International Call For Papers

選擇Administrator 所有欄位都是必要 的





### 系統管理者功能表

尚未assign之paper 的list

按這裡可以看到所有的 paper,可以看到誰寫 的評論及評論內容

Pai that has been uploaded but has not yet b PaperCode Title NW14 Test For the Updated Data View

View Detail	Pa de	Title
View	0B2	An improvement of the Comple Broadcasting in sdfdafadadafds
View	DB3	test title 1
View	NW12	This time i must have got it rigl

Administrator Area

Welcome to the administrator's area If this is your first time here, please read the following notes carefully

You are currently logged in as admin ==Category== 💟 I Løgout Assign Paper ==Category== Manage User Manage Paper

r" link above

系統管理者

登出

- What can I do here? I can

  - Manage all users and all papers-- by choosing the dropdown list above.
- Important Notes:
  - Please logout the site by clicking the "Logout" link above. Otherwise on "people might get a chance to modify your data.

給系統管理者的說明



### 指定論文給評審委員

Papers that has been uploaded but has not yet been assigned to reviewers:

View Detail	PaperCode	Title
View	NW14	Test For the Updated Database and this Form
		Zymort Stranger

Workshop: NW

已經上傳的paper而尚未 assign給評審的list

Title	Abstract
Test For the Updated Database and this Form	This article tests whether I have got everything right. This is very important 'cause that I don't want to have any situation that the user adds more than 500 characters into the database in the "Abstract" column and that I wanted to know how the maxlength works and whether what the database would response if that actually happens. I think now I'm nearly there, just a few more lines, and then I can know the test result. Ready? go. Hopefully I can finish the whole thing today. Should be there n



#### Assign to :

DB - Reviewer One

DB - Reviewer Two

NW - Reviewer Three

NW - Reviewer Four

OS - Reviewer Five

OS - Reviewer Six

2

選三位,並有判斷一定只 有三位

Assign!



### 管理使用者



#### Administrator Area

Assign Paper |

Manage User 🔻 🄞 | Logout

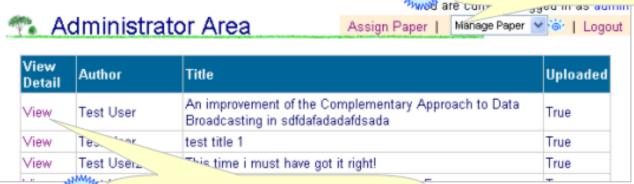


Author	E-Mail	Affiliation	Del
Eric Chen	b8931030@student.nsysu.edu.tw	Dept. dadfjl;	del
Mary Mac	b8931047@student.nsysu.edu.tw	Dept. EE of NSYSU	del
Test User2	ericshung@mail.educities.edu.tw	eadfljklj	dol
Test User	ericshung@pchome.com.tw ericshung@sinamail.com	Dept. of EE National Sun Yat-9	
Test User3	ericshung@sinamail.com 2 2	按這裡可以刪除此會將其所有的	
	3mm	有的評論都刪除	



### 管理論文

### 1↓ 選擇 Manage Paper↓



按這裡可以看這 paper 的內容、 評論、及誰寫的評論↓





### 評審委員功能

■ 登入畫面





#### ■ 評審委員功能表

未填comment及已填 comment的list,按view

Tiew PaperCode Polic's First Paper

Below is the list of papers that you've written th

View Detail	PaperCode	Title
View	DB2	An improvement of the ( sdfdafadadafdsada
View	DB3	test title 1

按這裡可以看到所有的paper,但是看不到是誰寫的評論

View Detail	erCode	Title
View	DB2	An improvement of the Compler Broadcasting in sdfdafadadafds
View	DB3	test title 1
View	NW12	This time i must have got it righ

#### Reviewer Area

Below is the li

You are currently logged in as r1
Write Comments | View Other Papers | Logout

Welcome to the reviewer's area If this is your first time here, please read the foll

評審登入帳號

- 6 What can I do here? I can
  - Write/Modify Comments-- by using the "Write Comments" link above
  - © <u>View all the other papers and comments</u>-- by using the "View Other Papers" link above. But you're not able to write comments even if this paper is assigned to you in this area
- 6 Important Notes:
  - Please logout the site by clicking the "Logout" link above. Otherwise other people might get a chance to modify your data.

登出



### ■填寫/更新審查結果

Title	Abstract	Uploaded
Eric's First Paper	This is Eric's first paper. Testing Testing	True
Download Paper Please fill in your comment	按此可下載 這篇 paper	
C	若尚未對此文章寫 comment時出現 submit	

Submit

Title	Abstract	Uploaded
An improvement of the Complementary Approach to Data Broadcasting in sdfdafadadafdsada	This is the second test, the main purpose for this is that i wanna know how this look like when the abstract is farely long	True

#### Download Paper

#### Please fill in your comments:

```
All right now, almost done.
I'm going to write my first comment now.
Try to Update...
Hope i got it right!!!

Update again!!
One more time!!
One more!
Netscape

All right now, almost done.

**Try to Update...

**E 寫過則把之前寫
**Open in the image of the im
```

Update