

Game of Thrones Database

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一、 主題說明：

根據影集 Game of Thrones 裡面錯綜複雜的角色、地點、戰爭跟勢力進行整理和串連的資料庫，使用者可以針對各項特徵（角色是否存活、角色飾演的演員等）進行查詢、更新、新增與刪除，剛入坑這部影集的人也可以快速辨別這個所屬勢力等資訊幫助熟悉整個劇情。

二、 系統操作介面：

The screenshot shows a web application interface for a Game of Thrones database. The interface is dark-themed. On the left, there is a sidebar with a red box highlighting the 'CHARACTER' section. The main content area displays forms for inserting and deleting data for various tables: CHARACTER, FOREIGN, WAR, HOUSE, and TERRITORY. Each table has an 'INSERT' and a 'DELETE' button, followed by input fields for various attributes. The 'CHARACTER' table has fields for Name, Marriage, Status, Actor, and House. The 'FOREIGN' table has fields for Name, Character, Country, and Gender. The 'WAR' table has fields for Name and Participants. The 'HOUSE' table has fields for Name, Words, and Alliance. The 'TERRITORY' table has fields for Name, Ruler, and House.

可以針對不同
table 的 attribute
Insert 和 Delete

查詢工具

SQL

START

COMMAND

```
INSERT INTO Houses (name, words, alliance_house_id)
VALUES
(Shark, We bite, Not eat, 9)
```

每種查詢都有輸入

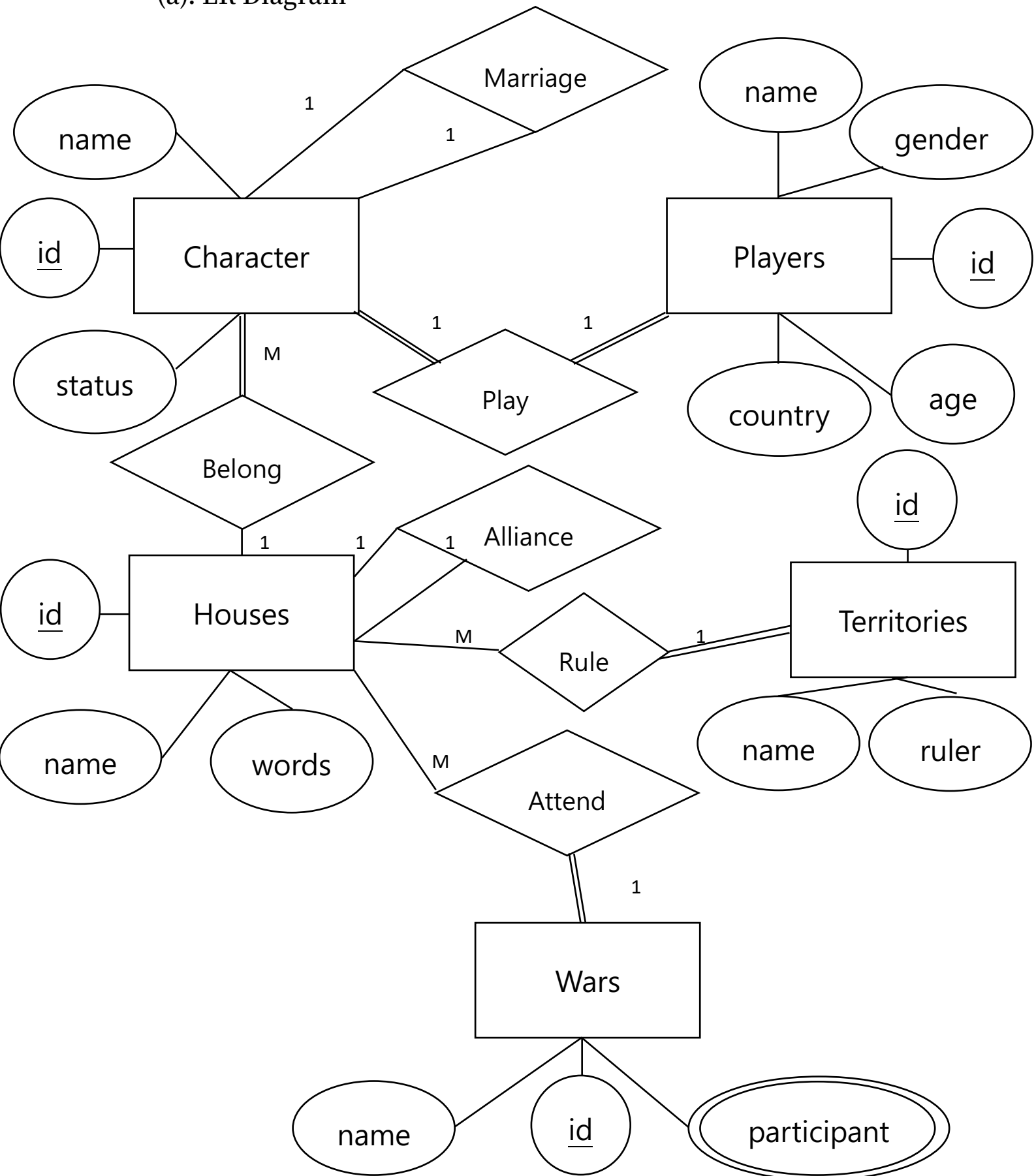
SQL 和按鈕兩種

OUTPUT

```
(0, 'Stark', 3, 'Winter Is Coming')
(1, 'Tully', 0, 'Family, Duty, Honor')
(2, 'Lannister', 7, 'Hear Me Roar!')
(3, 'Targaryen', 0, 'Fire and Blood')
(4, 'Baratheon', 0, 'Ours is the Fury[]')
(5, 'Tyrell', 3, 'Growing strong:')
(6, 'Martell', 3, 'Unbowed, Unbent, Unbroken')
(7, 'Greyjoy', 0, 'We Do Not Sow')
(8, 'Arryn', 0, 'As High as Honor')
(9, 'No house', None, None)
(10, 'Bolton', None, 'Our Blades are Sharp')
(11, 'The White', None, None)
(22, 'Shark', 9, 'We bite, Not eat')
```

三、 資料架構圖

(a). ER Diagram



(b). Relation Schema

Characters

<u>id</u>	name	status	marriage_id	<u>house_id</u>	<u>actor_id</u>
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Players

<u>actor_id</u>	name	<u>char_id</u>	gender	age	country
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Houses

<u>house_id</u>	name	alliance_house_id	words
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Wars

<u>war_id</u>	<u>part1_id</u>	<u>part2_id</u>	<u>part3_id</u>	<u>part4_id</u>	<u>place_id</u>	war_name
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Territories

<u>territory_id</u>	name	<u>house_id</u>	<u>ruler_id</u>
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四、 儲存資料介紹：

1. Characters 劇中角色資訊

- (a) Id：角色編號
- (b) actor_id：演員編號
- (c) name：角色名字
- (d) status：角色存活/死亡
- (e) marriage：角色結婚對象
- (f) house_id：角色所屬家族

2. Players 演員資訊

- (a) actor_id：演員編號
- (b) char_id：演員飾演角色編號
- (c) name：演員名字
- (d) age：演員年齡
- (e) gender：演員性別
- (f) country：演員國家

3. Houses 各家族資訊

- (a) house_id：家族編號
- (b) name：家族名稱
- (c) alliance_house_id：家族親近(同盟)的家族編號
- (d) words：家族格言

4. Wars 劇中各戰爭資訊

- (a) war_id：戰爭編號
- (b) participant1~4：參戰家族編號（最多四項）
- (c) place_id：戰爭發生地點編號

5. Territories 劇中各領地資訊

- (a) territory_id：領地編號
- (b) name：地區名稱
- (c) house_id：領地所屬家族編號
- (d) ruler：領地統治者角色編號

五、資料後臺截圖

	name	id	status	actor_id	marriage	house_id	
	Margary Tyrell	20	Deceased	20	10	5	
	Loras Tyrell	21	Deceased	21	NULL	5	
	Danerys Targaryen	22	Deceased	22	NULL	3	
	Viserys Targaryen	23	Deceased	23	NULL	3	
	Aemon Targaryen	24	Deceased	24	NULL	3	
	Doran Martell	25	Deceased	25	NULL	6	
	Oberyn Martell	26	Deceased	26	NULL	6	
▶	Trystane Martell	27	Deceased	27	NULL	6	
	Theon Greyjoy	28	Deceased	28	NULL	7	
	Yara Greyjoy	29	Alive	29	NULL	7	
	Euron Greyjoy	30	Deceased	30	NULL	7	
	Jon Arryn	31	Deceased	31	33	8	
	Robin Arryn	32	Alive	32	NULL	8	
	Lysa Tully	33	Deceased	33	31	1	
	Edmure Tully	34	Deceased	34	NULL	1	
	Melisandre	35	Deceased	35	NULL	9	
	Varys	36	Deceased	36	NULL	9	
	Petyr Baelish	37	Deceased	37	NULL	9	
	Bronn	38	Alive	38	NULL	9	
	Gendry Baratheon	39	Alive	39	NULL	4	
	NULL	NULL	NULL	NULL	NULL	NULL	