Chinese Opera Relational Database Schema

Chinese opera is mainly composed of three different art forms: folk song and dance, rap and burlesque. It originated from primitive singing and dancing, and is a comprehensive stage art style with a long history.

After long-term development and evolution, five major opera genres have gradually formed: "Beijing Opera, Yue Opera, Huangmei Opera, Pingju Opera, and Henan Opera". Chinese opera, Greek tragedy and comedy, and Indian Sanskrit opera are known as the three ancient drama cultures in the world.

Chinese Opera Relational Database Schema

1. Opera(Opera\_id, Name, City, Province )

Fkr: none

1. Theater(Opera\_type, Theater\_name, Theater\_city, Theater\_province)

Fkr: Theater.Opera\_type → Opera. Name

1. Show(Name, Theater, Theater\_location, Date, Time )

Fkr: Show.Theater → Theater. Theater\_name

Show. Theater\_location → Theater.Theater\_city & Theater. Theater\_province

1. Famous\_Actor/Actress(A\_name, Gender, Opera\_type, Year of birth and death, Representative work)

Fkr: Famous\_Actor/Actress. Opera\_type → Opera. Name

1. Fares(Show\_name, Time, Seat, Theater, Price )

Fkr: Fares. Show\_name → Show. Name

Fares. Date → Show. Date & Show. Time

Fares. Theater → Theater. Theater\_name

Opera

|  |  |  |  |
| --- | --- | --- | --- |
| Opera\_id | Name | City | Province |
| 001 | Peking Opera | Bejing,Tianjin, | Bejing,Tianjin,Shandong,Liaoning |
| 002 | Yue Opera | Shengzhou,Shanghai | Shanghai,Zhejiang |
| 003 | Huangmei Opera | Huangmei,Anqing | Anhui,Hubei,Jiangxi |
| 004 | Ping Opera | Tangshan | Hebei |
| 005 | Henan Opera | Kaifeng,Handan | Henan,Hebei |

Theater

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Opera\_type | Theater\_name | Troupe | Theater\_city | Theater\_province |
| Peking Opera | Jingju Theater Company of Beijing | China National Peking Opera Company | Bejing | Bejing |
| Peking Opera | Beijing Peking Opera Theater | Beijing Peking Opera Troupe | Bejing | Beijing |
| Peking Opera | Tianjin Peking Opera Theater | Tianjin Peking Opera Troupe | Tianjin | Tianjin |
| Peking Opera | Tianjin Peking Opera Theater | Tianjin Youth Peking Opera Troupe | Tianjin | Tianjin |
| Yue Opera | Shanghai Yueju Theater | Chunguang Yue Opera Troupe | Shanghai | Shanghai |
| Yue Opera | Shanghai Yueju Theater | Zhejiang Yue Opera Troupe | Shanghai | Shanghai |
| Huangmei Opera | Hubei Huangmei Drama Theater | Huangmei Opera Troupe | huanggang | Hubei |
| Huangmei Opera | Hubei Huangmei Drama Theater | Huangmei Drama Troupe of Anhui Province | huanggang | Hubei |
| Ping Opera | China Pingju Opera Theater | Beijing Liu Xiurong Ping Opera Troupe | Beijing | Beijing |
| Henan Opera | Henan Yuju Opera | Handan Dongfeng Troupe | Zhengzhou | Henan |

Show

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Theater | Theater\_location | Date | Time |
| The Drunken Beauty | Beijing Peking Opera Theater | Beijing | 02/03/2023 | 14:00-16:00 |
| The Drunken Beauty | Beijing Peking Opera Theater | Beijing | 02/04/2023 | 14:00-16:00 |
| The Drunken Beauty | Beijing Peking Opera Theater | Beijing | 02/04/2023 | 10:00-12:00 |
| Farewell My Concubine | Tianjin Peking Opera Theater | Tianjin | 02/02/2023 | 10:00-12:30 |
| Sacrifice | Beijing Peking Opera Theater | Beijing | 02/02/2023 | 14:00-18:00 |
| The Butterfly Lovers | Shanghai Yue Theater | Shanghai | 02/02/2023 | 14:00-16:00 |
| Thunderstorm | Shanghai Yue Theater | Shanghai | 02/04/2023 | 9:00-12:30 |
| Thunderstorm | Shanghai Yue Theater | Shanghai | 02/05/2023 | 9:00-12:30 |
| The Butterfly Lovers | Shanghai Yue Theater | Shanghai | 02/04/2023 | 10:00-12:00 |
| Godness Marriage | Hubei Huangmei Drama Theater | Hubei | 02/01/2023 | 13:00-15:30 |

Famous\_Actor/Actress

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A\_name | Gender | Opera\_type | Year of birth and death | Representative work |
| Mei Lanfang | M | Peking Opera | 22/10/1894-8/8/1961 | The Drunken Beauty |
| Chen Suzhen | F | Henan Opera | 30/4/1918-29/3/1994 | A Sword Intrigue |
| Chang Xiangyu | F | Henan Opera | 15/9/1923-1/6/2004 | Mulan |
| Ma Jinfeng | F | Henan Opera | \*/11/1922-29/5/2022 | Mu Guiying Takes Command |
| Wang Shaofang | M | Huangmei Opera | 11/10/1920-19/7/1986 | The Female Prince Consort |
| Yin Guifang | F | Yue Opera | 1/12/1919-1/3/2000 | The Story of the Stone |
| Xun Huisheng | M | Peking Opera | 5/1/1900-26/12/1968 | The Story of Sue San |
| Shang xiaoyun | M | Peking Opera | 7/1/1900-19/4/1976 | Lady Zhaojun |
| Cheng Yanqiu | M | Peking Opera | 1/1/1904-9/3/1958 | Chamber Dreams |
| Yuan Xuefen | F | Yue Opera | 26/3/1922-19/2/2011 | The Butterfly Lovers |
| Yan Fengying | F | Huangmei Opera | 13/4/1930-8/4/1968 | Godness Marriage |

Fares

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Show\_name | Time | Seat | Theater | Price |
| The Drunken Beauty | 02/04/2023 14:00-16:00 | stalls | Jingju Theater Company of Beijing | ￥1300 |
| The Drunken Beauty | 02/04/2023 14:00-16:00 | dress circle | Jingju Theater Company of Beijing | ￥1100 |
| The Drunken Beauty | 02/04/2023 14:00-16:00 | upper circle | Jingju Theater Company of Beijing | ￥900 |
| The Drunken Beauty | 02/04/2023 14:00-16:00 | balcony | Jingju Theater Company of Beijing | ￥750 |
| The Butterfly Lovers | 02/04/2023 14:00-16:00 | stalls | Shanghai Yue Theater | ￥1200 |
| The Butterfly Lovers | 02/04/2023 14:00-16:00 | dress circle | Shanghai Yue Theater | ￥1000 |
| The Butterfly Lovers | 02/04/2023 14:00-16:00 | upper circle | Shanghai Yue Theater | ￥800 |
| The Butterfly Lovers | 02/04/2023 14:00-16:00 | balcony | Shanghai Yue Theater | ￥700 |
| Thunderstorm | 02/04/2023 9:00-12:30 | stalls | Shanghai Yue Theater | ￥1400 |
| Thunderstorm | 02/04/2023 9:00-12:30 | dress circle | Shanghai Yue Theater | ￥1200 |

σGender = M（Famous\_Actor/Actress）

Find all rows of Famous\_Actor/Actress for gender is M

π Show\_name, Time, Seat, Price (Fares)

Find all rows of Fares with only 4 columns: Show\_name, Time, Seat, Price

π A\_name, Gender (σ Gender = M ( Famous\_Actor/Actress))

Find all rows of Famous\_Actor/Actress for gender is M, and only have 2 columns: A\_name,Gender

σ Show\_name = The Drunken Beauty(πShow\_name, Time, Seat, Price (Fares))

Find all rows of Fares for the show name is The Drunken Beauty , and it has only 4 columns: Show\_name, Time, Seat, Price

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