

- 报告二
  - 创建引索
    - 代码如下:
  - 导入country表
    - 导入结果如下:
  - 修改演员表:
    - 修改演员表, 增加出生地 (birthplace), 类型与country表的code列一致, 并建立外键关联
    - 使用update语句为已有演员添加相应的出生地
  - 查询实现:
    - 查询代码如下:
    - 查询结果:
  - 遇到的问题:
    - 1. 为artist添加新的有外键约束的属性:
      - 使用如下语句:
    - 2. 排序时的顺序:

## 报告二

---

### 创建引索

---

代码如下:

```
SQL
```

```
create unique index Artimdb on artist(imdbnumber);
```

### 导入country表

---

导入结果如下:

	Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy
1	ABW	Aruba	North America	Caribbean	193	<null>	103000	
2	AFG	Afghanistan	Asia	Southern and Central Asia	652090	1919	22720000	
3	AGO	Angola	Africa	Central Africa	1246700	1975	12878000	
4	ATA	Anguilla	North America	Caribbean	96	<null>	8000	
5	ALB	Albania	Europe	Southern Europe	28748	1912	3401200	
6	AND	Andorra	Europe	Southern Europe	468	1278	78000	
7	ANT	Netherlands Antilles	North America	Caribbean	800	<null>	217000	
8	ARE	United Arab Emirates	Asia	Middle East	83600	1971	2441000	
9	ARG	Argentina	South America	South America	2780400	1816	37032000	
10	ARM	Armenia	Asia	Middle East	29800	1991	3520000	
11	ASM	American Samoa	Oceania	Polynesia	199	<null>	68000	
12	ATA	Antarctica	Antarctica	Antarctica	13120000	<null>	0	
13	ATF	French Southern territories	Antarctica	Antarctica	7780	<null>	0	
14	ATG	Antigua and Barbuda	North America	Caribbean	442	1981	68000	
15	AUS	Australia	Oceania	Australia and New Zealand	7741220	1901	18806000	
16	AUT	Austria	Europe	Western Europe	83859	1918	8091800	
17	AZE	Azerbaijan	Asia	Middle East	86600	1991	7734000	
18	BDI	Burundi	Africa	Eastern Africa	27834	1962	6695000	
19	BEL	Belgium	Europe	Western Europe	30518	1830	10239000	
20	BEN	Benin	Africa	Western Africa	112622	1960	6097000	
21	BFA	Burkina Faso	Africa	Western Africa	274000	1960	11937000	
22	BGD	Bangladesh	Asia	Southern and Central Asia	143998	1971	129155000	
23	BGR	Bulgaria	Europe	Eastern Europe	110994	1908	8190900	
24	BHR	Bahrain	Asia	Middle East	694	1971	617000	
25	BHS	Bahamas	North America	Caribbean	13878	1973	307000	
26	BIH	Bosnia and Herzegovina	Europe	Southern Europe	51197	1992	3972000	
27	BLR	Belarus	Europe	Eastern Europe	207600	1991	10236000	

## 修改演员表：

修改演员表，增加出生地（**birthplace**），类型与**country**表的**code**列一致，并建立外键关联

```
alter table artist modify birthplace char(3) NOT NULL DEFAULT '';
```

```
ALTER TABLE artist ADD CONSTRAINT place FOREIGN KEY(birthplace) REFERENCES country(Code);
```

使用**update**语句为已有演员添加相应的出生地

```
update artist
set birthplace = '福建' where name = '钟晨瑶';
```

```
update artist
set artist.birthplace = '福建' where name = '陈都灵';
```

```
update artist
set artist.birthplace = '山东' where name = '李雪健';
```

```
update artist
set artist.birthplace = '黑龙江' where name = '张译';
```

```
update artist
set artist.birthplace = '黑龙江' where name = '沈腾';
```

## 查询实现：

---

查询代码如下：

```
select distinct name, releasedate, duration
from movie;

select name, age
from artist where age >= 30 and sex = 'female';

select distinct movie.ID, participation.rolename
from movie, participation where movie.ID = participation.ID;

select distinct country.Continent
from country;

select country.Name
from country where Population < 10000000 and Region = 'South America'
order by Population desc ;

select count(name)
from country where Continent = 'Europe';

select name, Population from country
where(Population =(
select max(Population)
from country));

select distinct artist.birthplace
from artist;
```

查询结果：

File Edit View Navigation Code Build Run Tools Git Windows Help

report.md console\_1 report.md console.sql country.sql country artist participation movie

Database @localhost > moviedb > country

	Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExp
1	ABW	Aruba	North America	Caribbean	193	<null>	103000	
2	AFG	Afghanistan	Asia	Southern and Central Asia	652090	1919	22720000	
3	AGO	Angola	Africa	Central Africa	1246700	1975	12878000	
4	AIA	Anguilla	North America	Caribbean	96	<null>	8000	
5	ALB	Albania	Europe	Southern Europe	28748	1912	3401200	
6	AND	Andorra	Europe	Southern Europe	468	1278	78000	
7	ANT	Netherlands Antilles	North America	Caribbean	800	<null>	217000	
8	ARE	United Arab Emirates	Asia	Middle East	83600	1971	2441000	
9	ARG	Argentina	South America	South America	2780400	1816	37032000	
10	ARM	Armenia	Asia	Middle East	29800	1991	3520000	
11	ASM	American Samoa	Oceania	Polynesia	199	<null>	68000	
12	ATA	Antarctica	Antarctica	Antarctica	13120000	<null>	0	
13	ATF	French Southern territories	Antarctica	Antarctica	7780	<null>	0	
14	ATG	Antigua and Barbuda	North America	Caribbean	442	1981	68000	
15	AUS	Australia	Oceania	Australia and New Zealand	7741220	1901	18866000	
16	AUT	Austria	Europe	Western Europe	83859	1918	8091800	
17	AZE	Azerbaijan	Asia	Middle East	86600	1991	7734000	
18	BDI	Burundi	Africa	Eastern Africa	27834	1962	6695000	
19	BEL	Belgium	Europe	Western Europe	30518	1830	10239000	
20	BEN	Benin	Africa	Western Africa	112622	1960	6097000	
21	BFA	Burkina Faso	Africa	Western Africa	274000	1960	11937000	
22	BGD	Bangladesh	Asia	Southern and Central Asia	143998	1971	129155000	
23	BGR	Bulgaria	Europe	Eastern Europe	110994	1908	8190900	
24	BHR	Bahrain	Asia	Middle East	694	1971	617000	
25	BHS	Bahamas	North America	Caribbean	13878	1973	307000	
26	BIH	Bosnia and Herzegovina	Europe	Southern Europe	51197	1992	3972000	
27	BLR	Belarus	Europe	Eastern Europe	207600	1991	10236000	

Database @localhost > moviedb > > country

输出 moviedb.movie			
	name	releasedate	duration
1	完蛋我被美女包围了	2023-10-27	<null>
2	左耳	2015-04-24	117min
3	荆轲刺秦王	1999-03-01	163min
4	满江红	2023-01-22	159min
5	夏洛特烦恼	2015-09-30	104min

输出 moviedb.artist		
	name	age
1	陈都灵	30

输出 Result 4		
5 行		
	ID	rolename
1	1	郑梓妍
2	2	李珥
3	3	嬴政
4	4	何立
5	5	夏洛

输出 moviedb.country	
7 行	
	Continent
1	North America
2	Asia
3	Africa
4	Europe
5	South America
6	Oceania
7	Antarctica

输出 moviedb.country	
7 行	
	Name
1	Bolivia
2	Paraguay
3	Uruguay
4	Guyana
5	Suriname
6	French Guiana
7	Falkland Islands

输出 count(name):int	
1 行	
	`count(name)`
1	46

输出 moviedb.country		
1 行		
	name	Population
1	China	1277558000

输出 moviedb.artist	
3 行	
	birthplace
1	福建
2	山东
3	黑龙江

# 遇到的问题：

---

## 1. 为 **artist** 添加新的有外键约束的属性：

使用如下语句：

```
alter table artist add constraint <外键名> foreign key <被约束键> reference <表名>
(键名)
```

## 2. 排序时的顺序：

```
正序：desc
倒序：aesc
```