В базе данных 4 таблицы

```
mysql> SHOW TABLES;
| Tables_in_test
| city
 country
| festival
| festival
| festivalorganizer |
4 rows in set (0.00 sec)
ЗАДАНИЕ 1
Создание таблицы 'City'
CREATE TABLE City
 Name VARCHAR(40),
 Population INT(15),
 Area INT(15),
 Country VARCHAR(40)
);
Создание таблицы 'Country'
CREATE TABLE Country
 Name VARCHAR(40),
 Population INT(15),
 Area INT(15),
 Capital VARCHAR(40)
);
```

PRIMARY KEY II FOREIGN KEY

ALTER TABLE City ADD PRIMARY KEY (Name);

ALTER TABLE Country ADD FOREIGN KEY (Capital) REFERENCES City (Name);

Заполнение таблиц

```
INSERT INTO City VALUES ('New-York', 8405837, 789, 'USA');
INSERT INTO City VALUES ('Moscow', 12330126, 2562, 'Russia');
INSERT INTO City VALUES ('St. Petersburg', 5225690, 1439, 'Russia');
INSERT INTO City VALUES ('Tokyo', 13370198, 2189, 'Japan');
INSERT INTO City VALUES ('Beijing', 21705000, 16801, 'China');
INSERT INTO City VALUES ('Washington', 601723, 177, 'USA');
INSERT INTO City VALUES ('Paris', 2196936, 105, 'France');
INSERT INTO City VALUES ('Rome', 2870493, 1287, 'Italy');
INSERT INTO City VALUES ('Madrid', 3041579, 607, 'Spain');
INSERT INTO City VALUES ('Milan', 1342385, 182, 'Italy');
INSERT INTO City VALUES ('Merida', 777615, 883, 'Mexico');
INSERT INTO City VALUES ('Helsinki', 625268, 1550, 'Finland');
INSERT INTO City VALUES ('Porto', 221800, 41, 'Portugal');
INSERT INTO City VALUES ('Lisbon', 547733, 100, 'Portugal');
INSERT INTO City VALUES ('Mexico', 8800000, 149, 'Mexico');
INSERT INTO City VALUES ('Guangzhou', 10000000, 7434, 'China');
```

```
INSERT INTO Country VALUES ('Russia', 146544710, 17125191, 'Moscow');
INSERT INTO Country VALUES ('USA', 325607197, 9519431, 'Washington');
INSERT INTO Country VALUES ('Italy', 60795612, 301340, 'Rome');
INSERT INTO Country VALUES ('Spain', 47370542, 504782, 'Madrid');
INSERT INTO Country VALUES ('France', 66200000, 674685, 'Paris');
INSERT INTO Country VALUES ('China', 1373541278, 9596960, 'Beijing');
INSERT INTO Country VALUES ('Portugal', 10799270, 92151, 'Lisbon');
INSERT INTO Country VALUES ('Finland', 5492000, 338431, 'Helsinki');
INSERT INTO Country VALUES ('Japan', 126958000, 377944, 'Tokyo');
INSERT INTO Country VALUES ('Mexico', 121005815, 1972550, 'Mexico');
```

Таблица 'City'

mysq1> SELECT * FROM City;

		WHEN BOY BOY BOY BOY BOY BOY	 Property and any any any any any any
Name	Population	Area	Country
Beijing	21705000	16801	China
Guangzhou	10000000	7434	China
Helsinki	625268	1550	Finland
Lisbon	1 547733	100	Portugal
Madrid	3041579	607	Spain
Merida	777615	883	Mexico
Mexico	: 8800000	149	! Mexico
Milan	1342385	182	Italy
Moscow	1 12330126	2562	Russia
New-York	8405837	789	I USA
Paris	1 2196936	105	France
Porto	221800	41	Portugal
Rome	1 2870493	1287	! Italy
St. Petersburg	5225690	1439	Russia
Tokyo	13370198	2189	Japan
Washington	601723	177	l USÂ
	+	+	+

16 rows in set (0.00 sec)

Таблица 'Country'

mysq1> SELECT*FROM Country;

Name	Population	Area	1	Capital	
China	1373541278	9596960	ï	Beijing	
Finland	5492000	338431	1	Helsinki	
France	66200000	674685	1	Paris	
Italy	60795612	301340	1	Rome	
Japan	126958000	377944	1	Tokyo	
Mexico	121005815	1972550	1	Mexico	
Portugal	10799270	92151	1	Lisbon	
Russia	146544710	17125191	1	Moscow	
Spain	47370542	504782	1	Madrid	
UŜA	325607197	9519431	1	Washington	

10 rows in set (0.00 sec)

1)

mysql> SELECT Name, Population
-> FROM City
-> WHERE Country = 'Russia';

! Name		I	Population		
ï	Mos		ï	12330126	ï
ł	St.	Petersburg	1	5225690	1
+			-+-		-+

2 rows in set (0.00 sec)

);

```
mysql> SELECT Country, SUM(Area) AS Total
-> FROM City
-> GROUP BY Country;
| Country | Total |
  China
           1 24235
             1550
  Finland
  France
  Italy
  Japan
  Mexico
  Portugal !
              4001
  Russia
| Spain
| USA
               607
10 rows in set (0.00 sec)
ЗАДАНИЕ 2
Создание таблицы 'FestivalOrganizer'
CREATE TABLE FestivalOrganizer
 Name VARCHAR(40),
 AccreditationCountry INT(15),
);
Создание таблицы 'Festival'
CREATE TABLE Festival
 Name VARCHAR(40),
 City VARCHAR(40),
 Places INT(15),
 Country VARCHAR(40),
 Organizer VARCHAR(40)
```

PRIMARY KEY II FOREIGN KEY

ALTER TABLE FestivalOrganizer ADD PRIMARY KEY (Name, AccreditationCountry);

ALTER TABLE Country ADD PRIMARY KEY (Name);

ALTER TABLE Festival ADD FOREIGN KEY (City) REFERENCES City (Name);

ALTER TABLE FestivalCountry ADD FOREIGN KEY (Country) REFERENCES Country (Name);

Заполнение таблиц

INSERT INTO FestivalOrganizer VALUES ('Organizer_1', 'China');

INSERT INTO FestivalOrganizer VALUES ('Organizer_2', 'Mexico');

INSERT INTO FestivalOrganizer VALUES ('Organizer_3', 'Russia');

INSERT INTO FestivalOrganizer VALUES ('Organizer_4', 'China');

INSERT INTO FestivalOrganizer VALUES ('Organizer_5', 'France');

INSERT INTO FestivalOrganizer VALUES ('Organizer_6', 'USA');

INSERT INTO FestivalOrganizer VALUES ('Organizer_7', 'USA');

INSERT INTO FestivalOrganizer VALUES ('Organizer_8', 'Spain');

INSERT INTO FestivalOrganizer VALUES ('Organizer_9', 'Italy');

INSERT INTO FestivalOrganizer VALUES ('Organizer_10', 'Finland');

INSERT INTO FestivalOrganizer VALUES ('Organizer_11', 'Russia');

INSERT INTO FestivalOrganizer VALUES ('Organizer_12', 'France');

INSERT INTO Festival VALUES ('Dragon Boat Festival', 'Beijing', 150000000, 'China', 'Organizer_1');

INSERT INTO Festival VALUES ('Moscow Flower Show', 'Moscow', 15000, 'Russia', 'Organizer_11');

INSERT INTO Festival VALUES ('Sunshine Music Festival', 'St. Peterburg', 12000, 'Russia', 'Organizer_3');

INSERT INTO Festival VALUES ('Pitchfork Music Festival', 'Paris', 102100, 'France', 'Organizer_5');

INSERT INTO Festival VALUES ('Rome Film Fest', 'Rome', 650000, 'Italy', 'Organizer_9');

INSERT INTO Festival VALUES ('Mad Cool Festival', 'Madrid', 102647, 'Spain', 'Organizer_8');

INSERT INTO Festival VALUES ('Summer Music Festival', 'New-York', 80000, 'USA', 'Organizer_6');

INSERT INTO Festival VALUES ('Wedgwood Art Festival', 'Washington', 1500, 'USA', 'Organizer_7');

INSERT INTO Festival VALUES ('Day of the Dead', 'Mexico', 10240, 'Mexico', 'Organizer_2');

INSERT INTO Festival VALUES ('Beijing Mid-Autumn Festival', 'Beijing', 250000, 'China', 'Organizer_4');

INSERT INTO Festival VALUES ('Moscow Salsa & Kizomba Festival', 'Moscow', 4000, 'Russia', 'Organizer_11');

INSERT INTO Festival VALUES ('Moscow Music Peace Festival', 'Moscow', 10500, 'Russia', 'Organizer_3');

INSERT INTO Festival VALUES ('Longqing Gorge Ice and Snow Festival', 'Beijing', 20550, 'China', 'Organizer_4');

Таблица 'FestivalOrganizer'

Name	AccreditationCountry
Organizer_1	China
Organizer_10	Finland
Organizer_11	l Russia
Organizer_12	France
Organizer_2	Mexico
Organizer_3	Russia
Organizer_4	China
Organizer_5	France
Organizer_6	USA
Organizer_7	USA
Organizer_8	Spain
Organizer_9	Italy

Таблица 'Festival'

| Name

Dragon Boat Festival
Moscow Flower Show
Beijing Mid-Autumn Festival
Moscow Salsa & Kizomba Festival
Moscow Music Peace Festival
Longqing Gorge Ice and Snow Festival

6 rows in set (0.00 sec)

Name rganizer	ı	City		Places		Country	
	-+-		+		+		- 1
Dragon Boat Festival	ł	Beijing	1	150000000	1	China	1
rganizer_1 Moscow Flower Show		Moscow	1	15000	1	Russia	ì
rganizer_11 ¦	2500						- 67
Šunshine Music Festival rganizer_3 ¦	ł	St. Petersburg	ŧ	12000	ł	Russia	į
Pitchfork Music Festival	1	Paris	1	102100	1	France	į
rganizer_5 ¦	100				100		- 6
Řome Film Fest rganizer_9 ¦	i	Rome	ł	650000	i	Italy	
Mad Cool Festival	1	Madrid	1	102647	1	Spain	į
rganizer_8 ¦						ntanahar	- 6
Summer Music Festival rganizer_6 ¦	ł	New-York	ł	80000	i	USA	
rganizer_6 ; Wedgwood Art Festival	1	Washington	1	1500	1	USA	į
rganizer_7				1077.75	- 50		- 6
Day of the Dead	ł	Mexico	ł	10240	ł	Mexico	
rganizer_2	1	Beijing	1	250000	1	China	j
rganizer_4 ¦		20202113				0312110	
Moscow Salsa & Kizomba Festival	ł	Moscow	ł	4000	ł	Russia	
rganizer_11 ¦ Moscow Music Peace Festival	1	Moscow	1	1.0500	1	Russia	į
rganizer_3 ¦				16366	*	nuss ru	- 2
Longqing Gorge Ice and Snow Festival rganizer_4	ł	Beijing	1	20550	ł	China	
ysql> SELECT Festival.Name -> FROM Festival JOIN Country ON Fe -> WHERE Country.Population = (SELI	esi	tival.Country =	C	ountry.Name			
Name	i						
Dragon Boat Festival Beijing Mid-Autumn Festival Longqing Gorge Ice and Snow Festival	1						
rows in set (0.00 sec)	-+						