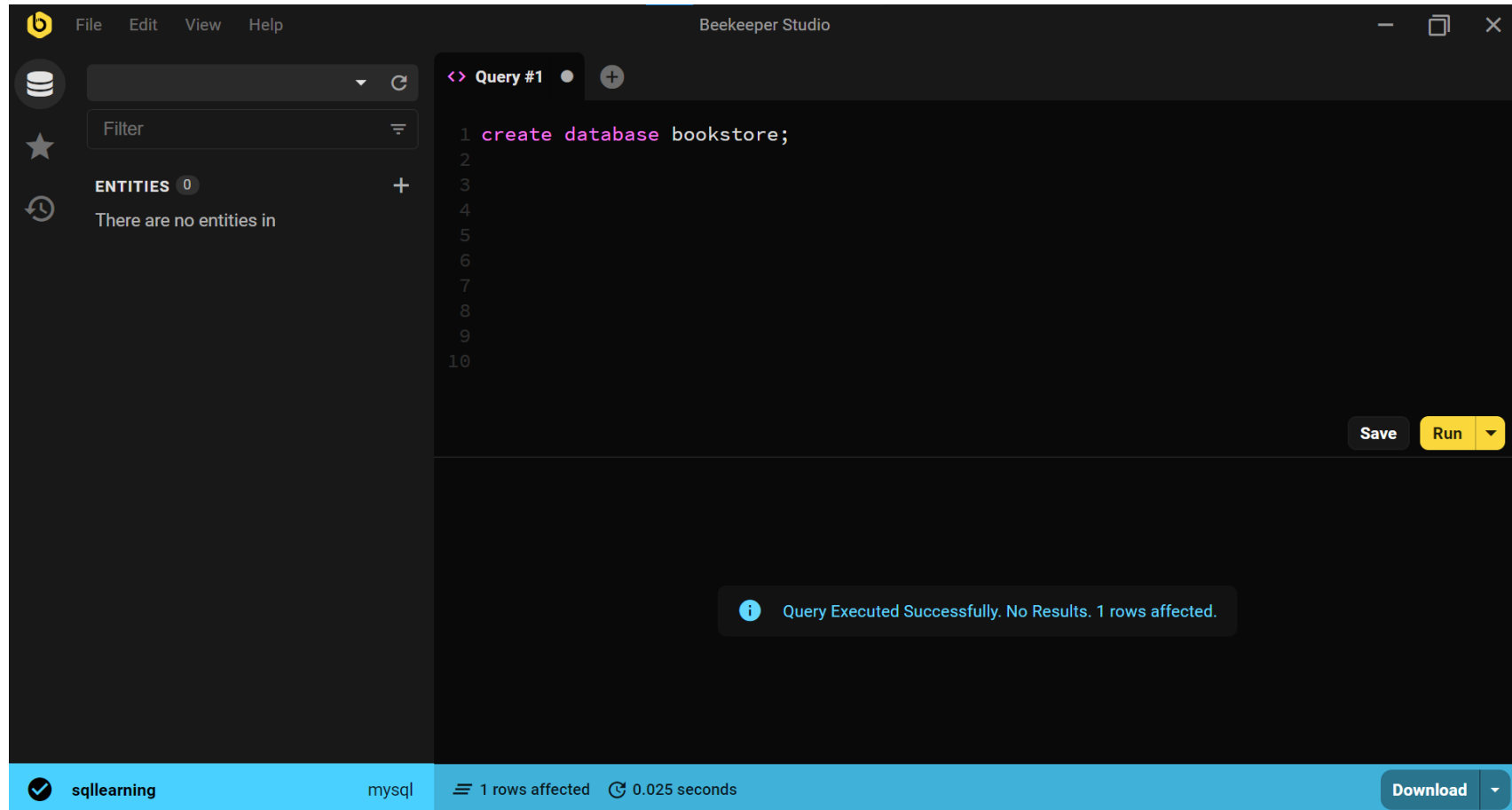


Database

Abdolazizsalimi

980292626

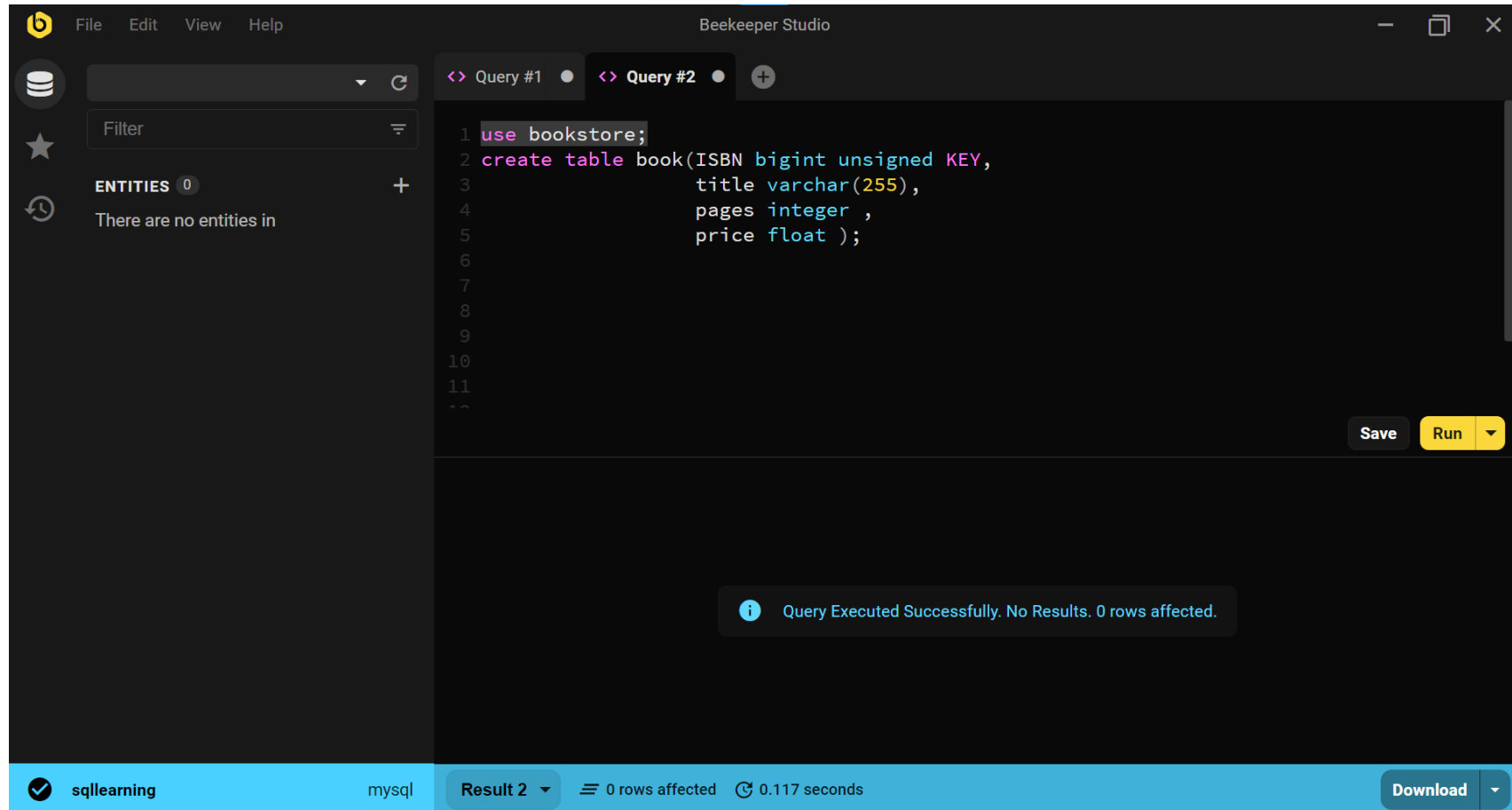
1.1 create database bookstore;



1.2

use bookstore;

create table book (ISBN bigint unsigned key,
title varchar (255),
pages integer ,
price float);



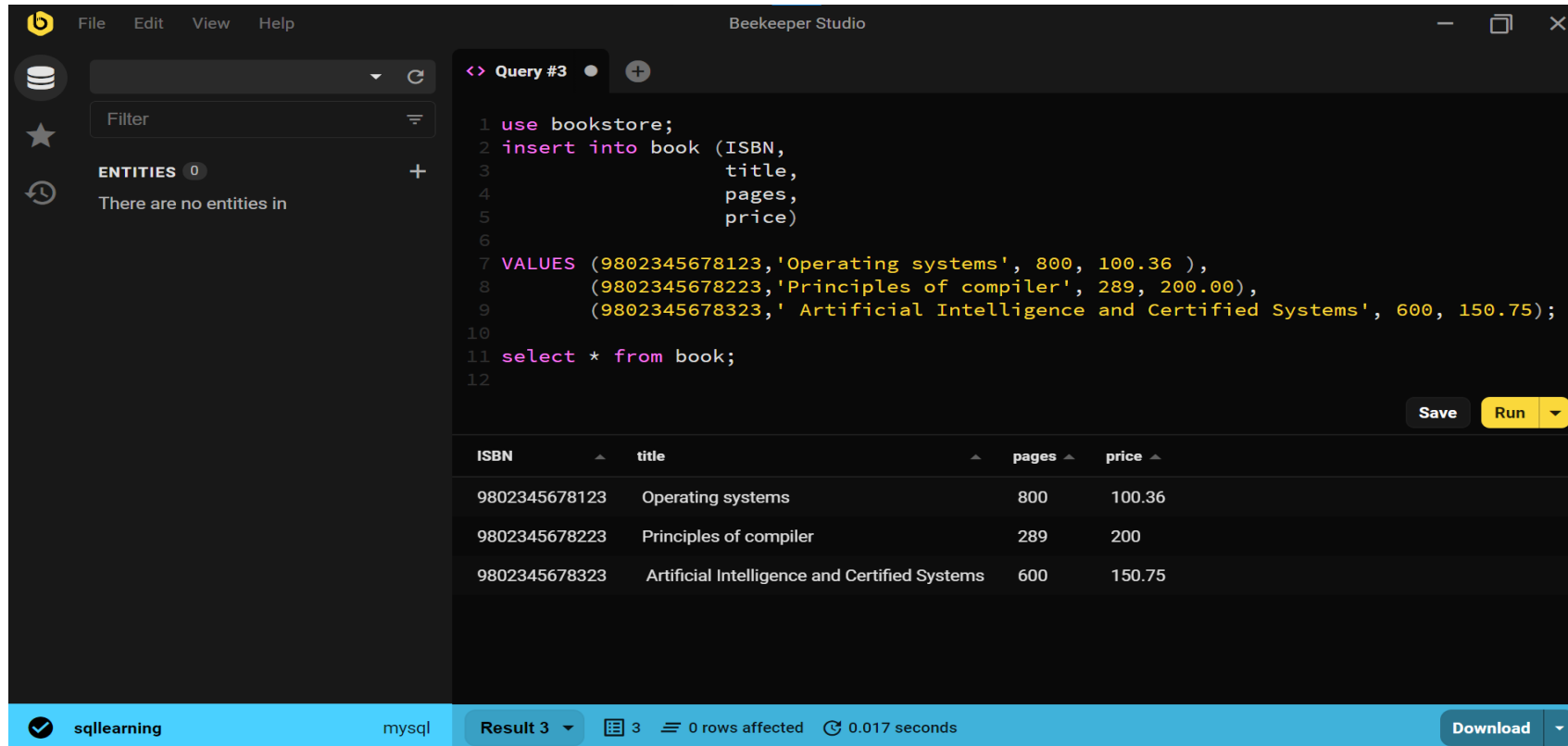
1.3

use bookstore ;

insert into book (ISBN,
title,
pages,
price)

values (9802345678123,'Operating systems ', 800, 100.36),
(9802345678223, 'Principles of compiler', 289, 200.00),
(9802345678323, 'Artificial Intelligence and Certified Systems', 600, 150.75);

select * from book ;



The screenshot shows the Beekeeper Studio interface. The left sidebar contains a database icon, a search filter, and an 'ENTITIES' section with a plus sign and the text 'There are no entities in'. The main editor area displays a SQL query labeled 'Query #3' with line numbers 1 through 12. The query is as follows:

```
1 use bookstore;
2 insert into book (ISBN,
3 title,
4 pages,
5 price)
6
7 VALUES (9802345678123,'Operating systems ', 800, 100.36 ),
8 (9802345678223,'Principles of compiler', 289, 200.00),
9 (9802345678323,'Artificial Intelligence and Certified Systems', 600, 150.75);
10
11 select * from book;
12
```

Below the query editor, there are 'Save' and 'Run' buttons. The 'Run' button is highlighted in yellow. Below the buttons, a table displays the results of the query. The table has four columns: ISBN, title, pages, and price. The data is as follows:

ISBN	title	pages	price
9802345678123	Operating systems	800	100.36
9802345678223	Principles of compiler	289	200
9802345678323	Artificial Intelligence and Certified Systems	600	150.75

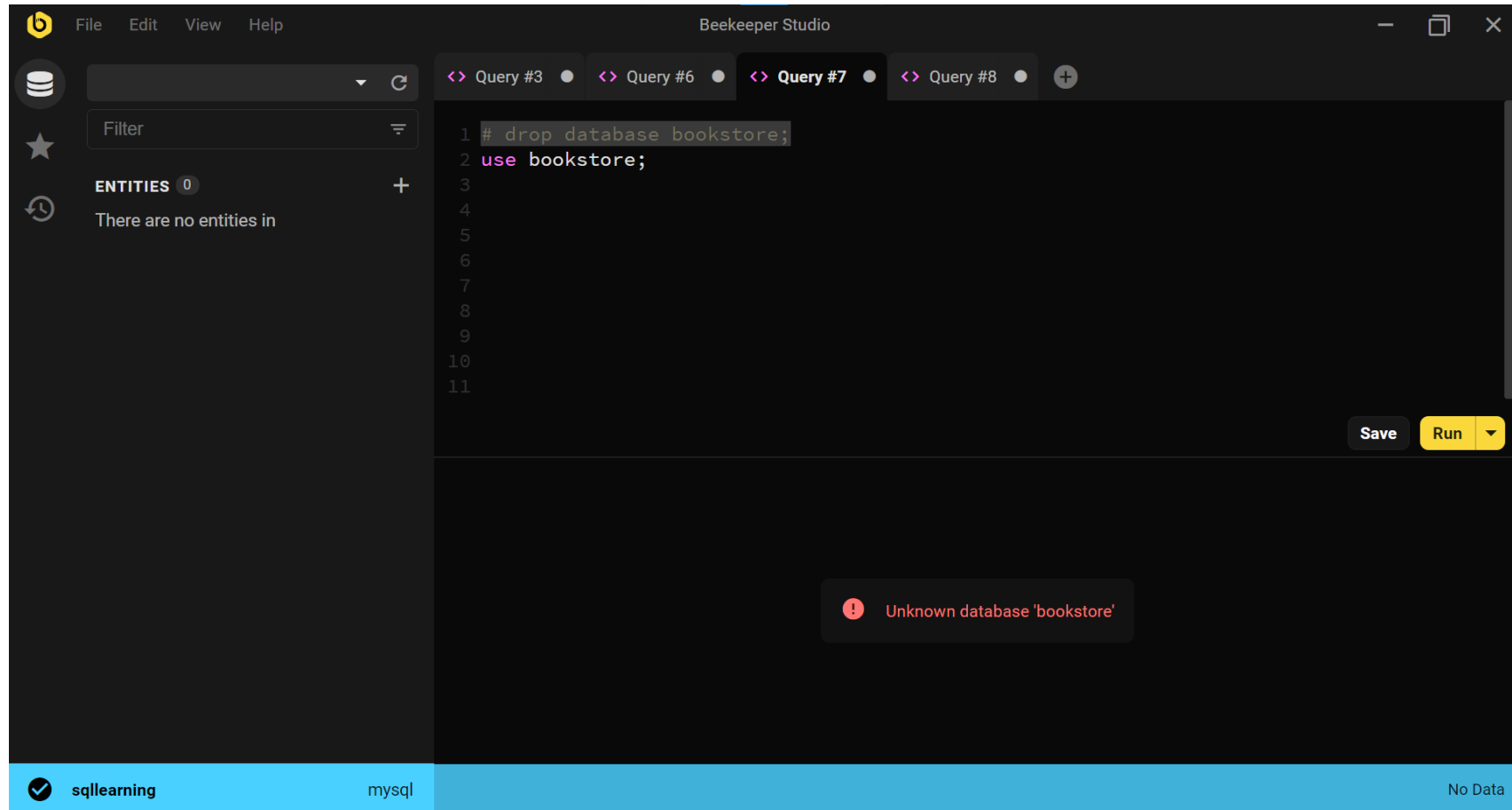
The bottom status bar shows 'sqllearning' on the left, 'mysql' in the center, and 'Result 3' on the right. The 'Result 3' section includes a table icon, '3' rows, '0 rows affected', and '0.017 seconds'. A 'Download' button is also present on the far right of the status bar.

1.4 select * from book;

The screenshot shows the Beekeeper Studio application window. The title bar reads "Beekeeper Studio". The menu bar includes "File", "Edit", "View", and "Help". On the left sidebar, there is a database icon, a "Filter" input field, and a section labeled "ENTITIES 0" with the text "There are no entities in". The main editor area has two tabs: "Query #3" and "Query #6". The "Query #6" tab is active and contains the SQL query: `1 select * from book;`. Below the query editor, there are "Save" and "Run" buttons. The results of the query are displayed in a table with the following columns: "ISBN", "title", "pages", and "price". The table contains three rows of data. At the bottom of the window, a status bar shows "sqllearning" with a checkmark, "mysql", "3" rows, "0 rows affected", and "0.014 seconds". A "Download" button is also present in the status bar.

ISBN	title	pages	price
9802345678123	Operating systems	800	100.36
9802345678223	Principles of compiler	289	200
9802345678323	Artificial Intelligence and Certified Systems	600	150.75

1.5 drop database bookstore;



2

```
use world ;  
select Code ,  
Name ,  
IndepYear As 'independence year'  
from country ;
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays the database structure for the 'world' database, including tables like 'city', 'country', and 'countrylanguage'. The 'country' table is expanded, showing columns such as Code, Name, Region, SurfaceArea, IndepYear, Population, LifeExpectancy, GNP, GNPOld, LocalName, GovernmentForm, HeadOfState, Capital, and Code2. The main editor displays a SQL query labeled 'Query #10' with the following code:

```
1 use world ;  
2 select Code,  
3     Name,  
4     IndepYear as 'independence_year'  
5 from country;  
6  
7  
8
```

Below the query editor, there are 'Save' and 'Run' buttons. The 'Run' button has been clicked, and the results are displayed in a table below. The table has three columns: 'Code', 'Name', and 'independence_year'. The results show a list of countries with their codes, names, and independence years. Some countries have a NULL value for the independence year.

Code	Name	independence_year
ABW	Aruba	(NULL)
AFG	Afghanistan	1919
AGO	Angola	1975
AIA	Anguilla	(NULL)
ALB	Albania	1912
AND	Andorra	1278
ANT	Netherlands Antilles	(NULL)
ARE	United Arab Emirates	1971

At the bottom of the interface, a status bar shows 'sqllearning' as the active database, 'mysql' as the engine, 'Result 2' as the selected result set, '239' as the number of rows, '0 rows affected' as the number of rows affected, and '0.025 seconds' as the execution time. A 'Download' button is also present.

3
select count(*) as 'dependent county count'
from country where
IndepYear is null;

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays a database connection named 'world' with a filter and a list of entities. The 'country' entity is expanded, showing fields like Code, Name, Region, SurfaceArea, IndepYear, Population, LifeExpectancy, GNP, GNPOld, LocalName, GovernmentForm, HeadOfState, Capital, and Code2. The main editor displays a SQL query in Query #12:

```
1 select count(*) as 'dependent county count'  
2 from country where  
3 IndepYear is null;  
4  
5  
6  
7  
8  
9  
10  
11  
12
```

Below the query editor, the result is shown as a table with one row:

dependent county count
47

The bottom status bar indicates the connection is 'sqllearning', the database is 'mysql', and the query executed successfully, returning 1 row and affecting 0 rows in 0.009 seconds. A 'Download' button is also present.

4

```
select count(*) as '{0-5}[--a--]'  
from country where  
Name like '__a__';
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays the database structure for a 'world' database, including tables like 'city', 'country', and 'countrylanguage'. The 'country' table is expanded, showing columns such as Code, Name, Region, SurfaceArea, and Population. The main editor displays a SQL query in Query #13:

```
1 select count(*) as '{0-5}[--a--]'  
2 from country  
3 where Name like '__a__';
```

Below the query editor, the results of the query are shown as a single row with the value '3'. The status bar at the bottom indicates that the query was executed successfully, affecting 0 rows in 0.008 seconds.

5

use world;

```
select * from country where Code in  
    (select Code from country  
     where Name  
     like '__a__');
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays the database structure for a 'world' database, including tables like 'city', 'country', and 'countrylanguage'. The main editor area contains a SQL query labeled 'Query #1'. The query is as follows:

```
1 use world;  
2 select * from country where Code in  
3     (select Code from country  
4      where Name  
5      like '__a__');
```

Below the query editor, there are 'Save' and 'Run' buttons. The 'Run' button has been clicked, and the results are displayed in a table below. The table has columns: Code, Name, Continent, Region, SurfaceArea, IndepYear, Population, and LifeExpectancy. The results show three rows of data:

Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy
ESP	Spain	Europe	Southern Europe	505992	1492	39441700	78.8
GHA	Ghana	Africa	Western Africa	238533	1957	20212000	57.4
ITA	Italy	Europe	Southern Europe	301316	1861	57680000	79

At the bottom of the interface, a status bar shows 'sqllearning' as the current database, 'mysql' as the engine, 'Result 2' as the selected result set, '3' rows, '0 rows affected', and a execution time of '0.008 seconds'. A 'Download' button is also present.

6

```
select * from city
where Name like 'sa%' or
      Name like '%sa';
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays the database structure for a 'world' database, including tables like 'city' and 'country'. The main editor area contains a SQL query: `select * from city where Name like 'sa%' or Name like '%sa';`. Below the query editor, a table of results is displayed with columns: ID, Name, CountryCode, District, and Population. The results show cities starting with 'sa' or ending with 'sa'. The status bar at the bottom indicates 233 rows affected in 0.052 seconds.

ID	Name	CountryCode	District	Population
40	SÃ©tif	DZA	SÃ©tif	179055
47	TÃ©bessa	DZA	TÃ©bessa	112007
63	Saint John's	ATG	St John	24000
78	San Miguel de TucumÃ¡n	ARG	TucumÃ¡n	470809
82	Salta	ARG	Salta	367550
84	Santa FÃ©	ARG	Santa FÃ©	353063
89	San Isidro	ARG	Buenos Aires	306341
95	San Miguel	ARG	Buenos Aires	248700

7

```
select * from country
where (SurfaceArea between 500000 and 1000000
and Population > 5000000)
or (Continent = 'Africa');
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays the database structure for a 'world' database, including tables like 'city', 'country', and 'countrylanguage'. The 'country' table is expanded, showing fields such as Code, Name, Continent, Region, SurfaceArea, IndepYear, Population, LifeExpectancy, GNP, GNPold, LocalName, GovernmentForm, HeadOfState, Capital, and Code2. The main editor displays a SQL query (Query #16) that selects all columns from the 'country' table where the SurfaceArea is between 500,000 and 1,000,000, the Population is greater than 5,000,000, or the Continent is 'Africa'. Below the query editor, a table of results is shown, listing countries that match the criteria. The status bar at the bottom indicates that 69 rows were affected in 0.005 seconds.

Code	Name	Continent	Region	SurfaceArea	IndepYear	Pop
AFG	Afghanistan	Asia	Southern and Central Asia	652090	1919	
AGO	Angola	Africa	Central Africa	1246700	1975	
BDI	Burundi	Africa	Eastern Africa	27834	1962	
BEN	Benin	Africa	Western Africa	112622	1960	
BFA	Burkina Faso	Africa	Western Africa	274000	1960	
BWA	Botswana	Africa	Southern Africa	581730	1966	
CAF	Central African Republic	Africa	Central Africa	622984	1960	
CHI	Chile	South America	South America	756626	1910	

8

```
select COUNT(distinct GovernmentForm) as  
number_of_government_forms from country;
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays a database connection named 'world' and a tree view of entities. The 'country' entity is expanded, showing fields like Code, Name, Region, SurfaceArea, and GovernmentForm. The main editor displays a SQL query: `select COUNT(distinct GovernmentForm) as number_of_government_forms from country;`. Below the query editor, the result is shown as a single row with the value 35 for the column `number_of_government_forms`. The bottom status bar indicates the query was executed on a 'mysql' database, affecting 0 rows in 0.008 seconds.

world

Filter

ENTITIES 3

- city
- country
 - Code char(3)
 - Name char(52)
 - enum('asia','europe','north america','africa','oceania')
 - Region char(26)
 - SurfaceArea float(10,2)
 - IndepYear smallint
 - Population int
 - LifeExpectancy float(3,1)
 - GNP float(10,2)
 - GNPOld float(10,2)
 - LocalName char(45)
 - GovernmentForm char(45)
 - HeadOfState char(60)
 - Capital int
 - Code2 char(2)
- countrylanguage

Query #1

```
1  
2 select COUNT(distinct GovernmentForm) as  
3 number_of_government_forms from country;  
4  
5  
6  
7  
8  
9  
10  
11
```

Save Run

number_of_government_forms

35

sqllearning mysql 1 0 rows affected 0.008 seconds Download

9

```
select * from country
where Name != LocalName order by
GNP desc,Population;
```

The screenshot shows the Beekeeper Studio interface. On the left, a sidebar displays a database schema for a 'world' database, including tables like 'city', 'country', and 'countrylanguage'. The 'country' table is expanded, showing fields such as Code, Name, Region, SurfaceArea, IndepYear, Population, LifeExpectancy, GNP, GNPold, LocalName, GovernmentForm, HeadOfState, Capital, and Code2. The main editor displays a SQL query:

```
1
2 select * from country
3 where Name != LocalName order by GNP desc,
4 Population;
```

 Below the query editor, there are 'Save' and 'Run' buttons. The bottom section shows the query results as a table with columns: Code, Name, Continent, Region, SurfaceArea, IndepYear, Population, and LifeExp. The results are sorted by GNP in descending order. The status bar at the bottom indicates 'sqllearning' database, 'mysql' engine, 139 rows, 0 rows affected, and 0.023 seconds execution time. A 'Download' button is also present.

Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExp
JPN	Japan	Asia	Eastern Asia	377829	-660	126714000	80.1
DEU	Germany	Europe	Western Europe	357022	1955	82164700	77.1
ITA	Italy	Europe	Southern Europe	301316	1861	57680000	79.1
CHN	China	Asia	Eastern Asia	9572900	-1523	1277558000	71.1
BRA	Brazil	South America	South America	8547403	1822	170115000	62.1
ESP	Spain	Europe	Southern Europe	505992	1492	39441700	78.1
IND	India	Asia	Southern and Central Asia	3287263	1947	1013662000	62.1
MEX	Mexico	North America	Central America	1059201	1910	90000000	71.1