

Using the world DB

1. Using the world DB, what is the average GNP of all countries that list English as an official Language?

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- SurfaceArea
- IndepYear
- Population
- LifeExpectancy
- GNP
- GNPOld
- LocalName
- GovernmentForm
- HeadOfState
- Capital
- Code2
- Indexes
- Foreign Keys
- Triggers
- countrylanguage
 - Columns
 - CountryCode
 - Language
 - IsOfficial
 - Percentage
 - Indexes
 - Foreign Keys
 - Triggers
- Views
- Stored Procedures

Query 1 x

```
1 SELECT AVG(GNP) AS Average_GNP
2 FROM world.country
3 WHERE Code IN (SELECT CountryCode FROM world.countrylanguage WHERE Language = 'English' AND IsOfficial = 'T');
```

Limit to 1000 rows

Result Grid

Average_GNP
256266.686364

Filter Rows: | Exports: | Wrap Cell Contents: |

Result 1 x

Output

Action Output

#	Time	Action	Message	Duration
1	21:19:28	SELECT AVG(GNP) AS Average_GNP FROM world.country WHERE Cod...	1 row(s) returned	0.000 sec

Table: countrylanguage

Columns:

- CountryCode char(3) PK
- Language char(30) PK
- IsOfficial enum('T','F')
- Percentage decimal(4,1)

Object Info Session

2. Give me the city name and country name of every city whose COUNTRY has a surface area greater than 1000

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

sakila
 sys
 world
 Tables
 city
 country
 Columns
 Code
 Name
 Continent
 Region
 SurfaceArea
 IndepYear
 Population
 LifeExpectancy
 GNP
 GNPOld
 LocalName
 GovernmentForm
 HeadOfState
 Capital
 Code2
 Indexes
 Foreign Keys
 Triggers

Query 1

Limit to 1000 rows

```
1 • SELECT city.Name AS CityName, country.Name AS CountryName
2 FROM world.city
3 JOIN world.country ON city.CountryCode = country.Code
4 WHERE country.SurfaceArea > 1000;
```

Result Grid

CityName	CountryName
Kabul	Afghanistan
Qandahar	Afghanistan
Herat	Afghanistan
Mazar-e-Sharif	Afghanistan
Luanda	Angola
Huambo	Angola
Lobito	Angola
Benguela	Angola
Namibe	Angola
Tirana	Albania

Result 2

Output

Action Output

#	Time	Action	Message	Dura
1	21:19:28	SELECT AVG(GNP) AS Average_GNP FROM world.country WHERE Cod...	1 row(s) returned	0.001
2	21:20:46	SELECT city.Name AS CityName, country.Name AS CountryName FROM ...	1000 row(s) returned	0.001

Table: country

Columns:

Code	char(3)
Name	char(5)
Continent	enum(Americ, Africa, Asia, Europe, Oceania)
Region	char(2)
SurfaceArea	decimal(10,2)
IndepYear	smallint
Population	int
LifeExpectancy	decimal(4,1)
GNP	decimal(10,2)

Object Info Session

3. Using the world DB, what is the average GNP of all countries that list English as an official language?

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

- SurfaceArea
- IndepYear
- Population
- LifeExpectancy
- GNP
- GNPold
- LocalName
- GovernmentForm
- HeadOfState
- Capital
- Code2
- Indexes
- Foreign Keys
- Triggers
- countrylanguage
 - Columns
 - CountryCode
 - Language
 - IsOfficial
 - Percentage
 - Indexes
 - Foreign Keys
 - Triggers
- Views
- Stored Procedures

Query 1 x

```
1 SELECT AVG(GNP) AS Average_GNP
2 FROM world.country
3 WHERE Code IN (SELECT CountryCode FROM world.countrylanguage WHERE Language = 'English' AND IsOfficial = 'T');
```

Limit to 1000 rows

Result Grid

Average_GNP
256266.686364

Result 1 x

Output

Action Output

#	Time	Action	Message	Duration
1	21:19:28	SELECT AVG(GNP) AS Average_GNP FROM world.country WHERE Cod...	1 row(s) returned	0.000 sec

Table: countrylanguage

Columns:

CountryCode	char(3) PK
Language	char(30) PK
IsOfficial	enum('T','F')
Percentage	decimal(4,1)

Object Info Session

4. Find me the city name and country of every city where English is the official language

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 x

Limit to 1000 rows

```
1 • SELECT city.Name AS CityName, country.Name AS CountryName
2 FROM world.city
3 JOIN world.country ON city.CountryCode = country.Code
4 WHERE country.Code IN (SELECT CountryCode FROM world.countryLanguage WHERE Language = 'English' AND IsOfficial =
```

Result Grid

CityName	CountryName
South Hill	Anguilla
The Valley	Anguilla
Tafuna	American Samoa
Fagatogo	American Samoa
Saint John's	Antigua and Barbuda
Sydney	Australia
Melbourne	Australia
Brisbane	Australia
Perth	Australia
Adelaide	Australia

Result 3 x

Output

Action Output

#	Time	Action	Message	
1	21:19:28	SELECT AVG(GNP) AS Average_GNP FROM world.country WHERE Cod...	1 row(s) returned	0
2	21:20:46	SELECT city.Name AS CityName, country.Name AS CountryName FROM ...	1000 row(s) returned	0
3	21:21:46	SELECT city.Name AS CityName, country.Name AS CountryName FROM ...	523 row(s) returned	0

Table: country

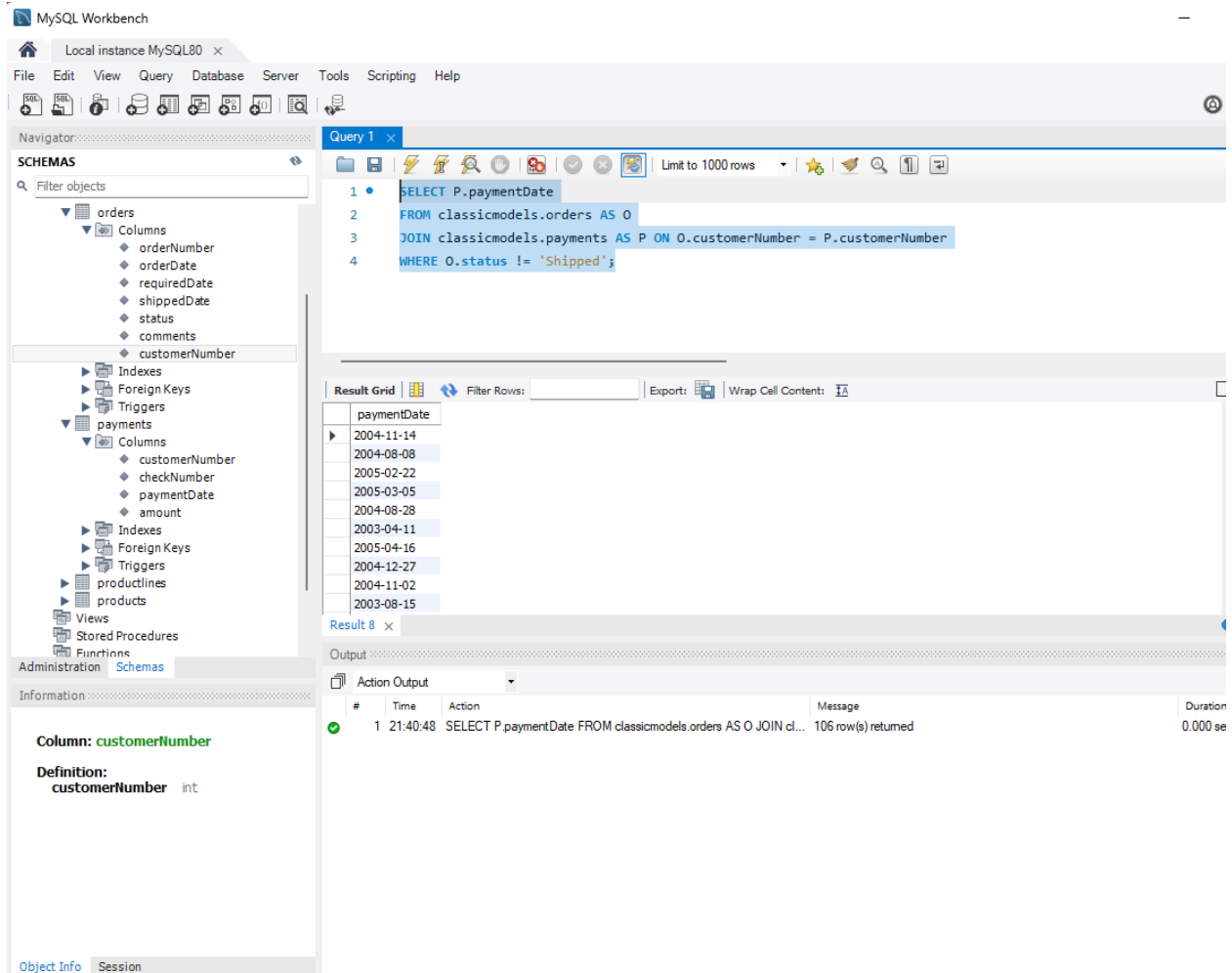
Columns:

- Code: char(3)
- Name: char(50)
- Continent: enum(Americ, Africa, Asia, Europe, Oceania)
- Region: char(20)
- SurfaceArea: decimal(10,2)
- IndepYear: smallint
- Population: int
- LifeExpectancy: decimal(4,1)
- GNP: decimal(10,2)

Object Info Session

Using the Classic Models DB

5. Find the payment date for every order that has not shipped yet (assume that any status other than 'shipped' indicates that an order has not been shipped)



The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with the 'orders' and 'payments' tables expanded. The main query editor shows the following SQL query:

```
1 • SELECT P.paymentDate
2 FROM classicmodels.orders AS O
3 JOIN classicmodels.payments AS P ON O.customerNumber = P.customerNumber
4 WHERE O.status != 'Shipped';
```

The 'Result Grid' shows the following data:

paymentDate
2004-11-14
2004-08-08
2005-02-22
2005-03-05
2004-08-28
2003-04-11
2005-04-16
2004-12-27
2004-11-02
2003-08-15

The 'Output' tab shows the following message:

#	Time	Action	Message	Duration
1	21:40:48	SELECT P.paymentDate FROM classicmodels.orders AS O JOIN cl...	106 row(s) returned	0.000 se

6. Give me the orderNumber, paymentDate, productCode and quantityOrdered for every order that has shipped

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

classicmodels

- Tables
 - customers
 - employees
 - offices
 - orderdetails
 - Columns
 - orderNumber
 - productCode
 - quantityOrdered
 - priceEach
 - orderLineNumber
 - Indexes
 - Foreign Keys
 - Triggers
- orders
 - Columns
 - orderNumber
 - orderDate
 - requiredDate
 - shippedDate
 - status
 - comments
 - customerNumber
 - Indexes
 - Foreign Keys

Administration Schemas

Information

Column: **customerNumber**

Definition: **customerNumber** int

Object Info Session

Query 1

```
1 • SELECT O.orderNumber, P.paymentDate, OD.productCode, OD.quantityOrdered
2 FROM classicmodels.orders AS O
3 JOIN classicmodels.payments AS P ON O.customerNumber = P.customerNumber
4 JOIN OrderDetails AS OD ON O.orderNumber = OD.orderNumber
5 WHERE O.status = 'Shipped';
```

Result Grid

	orderNumber	paymentDate	productCode	quantityOrdered
▶	10123	2004-10-19	S18_1589	26
	10123	2004-10-19	S18_2870	46
	10123	2004-10-19	S18_3685	34
	10123	2004-10-19	S24_1628	50
	10298	2004-10-19	S10_2016	39
	10298	2004-10-19	S18_2625	32
	10345	2004-10-19	S24_2022	43
	10123	2003-06-05	S18_1589	26
	10123	2003-06-05	S18_2870	46
	10123	2003-06-05	S18_3685	34

Result 10

Output

Action Output

#	Time	Action	Message	Duration
1	21:43:38	SELECT O.orderNumber, P.paymentDate, OD.productCode, OD.q...	1000 row(s) returned	0.015 s

Using the Sakila DB

7. Give me the first name, last name, customer id and a count of all the rentals that each customer has made.

The screenshot shows the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the 'sakila' database selected. The 'Query' pane contains the following SQL query:

```
1 SELECT c.customer_id, c.first_name, c.last_name, COUNT(r.rental_id) AS RentalCount
2 FROM sakila.customer AS c
3 LEFT JOIN sakila.rental AS r ON c.customer_id = r.customer_id
4 GROUP BY c.customer_id, c.first_name, c.last_name;
```

The 'Result Grid' shows the results of the query:

	customer_id	first_name	last_name	RentalCount
1	MARY	SMITH	32	
2	PATRICIA	JOHNSON	27	
3	LINDA	WILLIAMS	26	
4	BARBARA	JONES	22	
5	ELIZABETH	BROWN	38	
6	JENNIFER	DAVIS	28	
7	MARIA	MILLER	33	
8	SUSAN	WILSON	24	
9	MARGARET	MOORE	23	
10	DOROTHY	TAYLOR	25	

The 'Action Output' pane shows the execution log:

#	Time	Action	Message	Duration
1	21:19:28	SELECT AVG(GNP) AS Average_GNP FROM world.country WHERE Cod...	1 row(s) returned	0.000 s
2	21:20:46	SELECT city.Name AS CityName, country.Name AS CountryName FROM ...	1000 row(s) returned	0.000 s
3	21:21:46	SELECT city.Name AS CityName, country.Name AS CountryName FROM ...	523 row(s) returned	0.016 s
4	21:24:26	SELECT c.customer_id, c.first_name, c.last_name, COUNT(r.rental_id) AS ...	599 row(s) returned	0.032 s