

## 4.1.1 Alan's travel details

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Give the MySQL command that shows:

- The name of the cities
- The Arrival Date in the cities
- The name of the country the city is in

For all cities and countries visited by "Alan" in alphabetical order by city name.

```
select c.Name as name, h.dateArrived, co.Name as name
from person p
inner join hasvisitedcity h
on h.personID = p.personID
inner join city c
on h.cityID = c.ID
inner join country co
on c.CountryCode = co.Code
where p.personname ="Alan"
order by c.Name
;
```

### Expected results for 4.1.1

name dateArrived name Arnhem 2002-04-14 Netherlands Purulia 2002-06-20 India Suzhou 2002-01-30  
China Tama 2009-02-13 Japan

### my results for 4.1.1

```
+-----+-----+-----+
| name   | dateArrived | name   |
+-----+-----+-----+
| Arnhem | 2002-04-14  | Netherlands |
| Purulia | 2002-06-20  | India   |
| Suzhou  | 2002-01-30  | China   |
| Tama    | 2009-02-13  | Japan   |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

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## 4.1.2 European countries with lower than average life expectancy

Give the MySQL command to show the country name the country's life expectancy for all countries in Europe whose life expectancy is lower than the average in alphabetical order by country name.

### Expected results for 4.1.2

name lifeexpectancy Moldova 64.5 Ukraine 66.0

```
select Name as name, LifeExpectancy as lifeexpectancy from country where
continent = "Europe" and LifeExpectancy < (
    select avg(lifeExpectancy) as lifeexpectancy from country
) order by Name;
```

### my results for 4.1.2

```
+-----+-----+ | name | lifeexpectancy | +-----+-----+ | Moldova | 64.5 | | Ukraine
| 66.0 | +-----+-----+
```

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### 4.1.3 Peoples stage of life

Give the SQL command to show the following in ascending personID order:

- The person's ID
- The person's name
- The Person's age
- A column called Stage that shows the following:

```
select *,
case
    when age < 18 then "Child"
    when age < 29 then "Late teens/Twenties"
    when age < 39 then "Thirtysomething"
    else "Other"
END as "Stage"
from person
order by personID;
```

### Expected results for 4.1.3

```
personID personname age Stage 1 Tom 33 Thirtysomething 2 Alan 23 Late teens/Twenties 3 Sean 30
Thirtysomething 4 Sara 25 Late teens/Twenties 5 Jane 25 Late teens/Twenties 6 Michael 19 Late
teens/Twenties
```

### my results for 4.1.3

```
+-----+-----+-----+-----+ | personID | personname | age | Stage | +-----+---
-----+-----+-----+ | 1 | Tom | 33 | Thirtysomething | | 2 | Alan | 23 | Late teens/Twenties |
| 3 | Sean | 30 | Thirtysomething | | 4 | Sara | 25 | Late teens/Twenties | | 5 | Jane | 25 | Late teens/Twenties | | 6
| Michael | 19 | Late teens/Twenties | +-----+--
```

### Expected results for 4.1.3

personID personname age Stage 1 Tom 33 Thirtysomething 2 Alan 23 Late teens/Twenties 3 Sean 30 Thirtysomething 4 Sara 25 Late teens/Twenties 5 Jane 25 Late teens/Twenties 6 Michael 19 Late teens/Twenties

4.1.4 Capitals and Official Languages of North America

Give the SQL command to show for each country in North America:

- The name of the capital city
- The name of the country
- The official language(s)
- The percentage of people who speak the official language(s) The results should be alphabetical city name order, and within that by country name order, and within that by language order, and within that by ascending percentage.

```
select ci.name, co.name,cl.language, cl.percentage from country co
inner join city ci
on ci.ID = co.capital
inner join countrylanguage cl
on co.code = cl.CountryCode
where continent = "North America" and cl.IsOfficial = "T" order by
ci.name, cl.language, cl.percentage;
```

Expected results for 4.1.4

Ciudad de Guatemala Guatemala Spanish 64.7 Ciudad de M xico Mexico Spanish 92.1 Ciudad de Panam  Panama Spanish 76.8 Cockburn Town Turks and Caicos Islands English 0.0 Fort-de-France Martinique French 0.0 George Town Cayman Islands English 0.0 Hamilton Bermuda English 100.0 Kingstown Saint Vincent and the Grenadines English 0.0 La Habana Cuba Spanish 100.0 Managua Nicaragua Spanish 97.6 Nuuk Greenland Danish 12.5 Nuuk Greenland Greenlandic 87.5 Oranjestad Aruba Dutch 5.3 Ottawa Canada English 60.4 Ottawa Canada French 23.4 Plymouth Montserrat English 0.0 Port-au-Prince Haiti French 0.0 Road Town Virgin Islands, British English 0.0 Saint John s Antigua and Barbuda English 0.0 Saint-Pierre Saint Pierre and Miquelon French 0.0 San Jos  Costa Rica Spanish 97.5 San Juan Puerto Rico Spanish 51.3 San Salvador El Salvador Spanish 100.0 Santo Domingo de Guzm n Dominican Republic Spanish 98.0 Tegucigalpa Honduras Spanish 97.2 The Valley Anguilla English 0.0 Washington United States English 86.2 Willemstad Netherlands Antilles Dutch 0.0 Willemstad Netherlands Antilles Papiamentu 86.2

my results for 4.1.4

name	name	language
percentage		
Basse-Terre	Guadeloupe	French
0.0		

Basseterre		Saint Kitts and Nevis	English
0.0			
Belmopan		Belize	English
50.8			
Bridgetown		Barbados	English
0.0			
Castries		Saint Lucia	English
20.0			
Charlotte Amalie		Virgin Islands, U.S.	English
81.7			
Ciudad de Guatemala		Guatemala	Spanish
64.7			
Ciudad de México		Mexico	Spanish
92.1			
Ciudad de Panamá		Panama	Spanish
76.8			
Cockburn Town		Turks and Caicos Islands	English
0.0			
Fort-de-France		Martinique	French
0.0			
George Town		Cayman Islands	English
0.0			
Hamilton		Bermuda	English
100.0			
Kingstown		Saint Vincent and the Grenadines	English
0.0			
La Habana		Cuba	Spanish
100.0			
Managua		Nicaragua	Spanish
97.6			
Nuuk		Greenland	Danish
12.5			
Nuuk		Greenland	
Greenlandic	87.5		
Oranjestad		Aruba	Dutch
5.3			
Ottawa		Canada	English
60.4			
Ottawa		Canada	French
23.4			
Plymouth		Montserrat	English
0.0			
Port-au-Prince		Haiti	French
0.0			
Road Town		Virgin Islands, British	English
0.0			
Saint John's		Antigua and Barbuda	English
0.0			
Saint-Pierre		Saint Pierre and Miquelon	French
0.0			
San José		Costa Rica	Spanish
97.5			
San Juan		Puerto Rico	Spanish
51.3			

San Salvador	El Salvador	Spanish
100.0		
Santo Domingo de Guzmán	Dominican Republic	Spanish
98.0		
Tegucigalpa	Honduras	Spanish
97.2		
The Valley	Anguilla	English
0.0		
Washington	United States	English
86.2		
Willemstad	Netherlands Antilles	Dutch
0.0		
Willemstad	Netherlands Antilles	Papiamento
86.2		

### 4.1.5 Length of Stays

Give the SQL command to show for each country person:

- The person's name
- The name of the city the person visited
- A column called Stay Length that shows the following:

The results should be sorted alphabetically by personname, and within that by city name.

```
select p.personname, c.name,
case
when datediff(h.dateLeft, h.dateArrived) <20 then "Short"
when datediff(h.dateLeft, h.dateArrived) <99 then "Long"
else "Very Long"
End as "Stay Length"
from person p
inner join hasvisitedcity h
on p.personID = h.personid
inner join city c
on h.cityID = c.id
order by p.personname, c.name;
```

### Expected results for 4.1.5

personname name Stay Length Alan Arnhem Very Long Alan Purulia Long Alan Suzhou Very Long Alan Tama Very Long Michael Gua<sup>a</sup>ba Long Michael Nagoya Very Long Michael Saint Helier Short Sara Jaunpur Very Long Sara Saint Helier Short Sara ZÅrich Long Sean Dordrecht Very Long Sean Shangqiu Very Long Tom Dordrecht Very Long Tom Muntinlupa Very Long Tom SÅo Lourenão da Mata Short Tom Suzhou Long Tom Sydney Very Long Tom Tanjung Pinang Very Long

**my results for 4.1.5**

```
+-----+-----+-----+ | personname | name | Stay Length | +-----+-----+
+-----+-----+ | Alan | Arnhem | Very Long | | Alan | Purulia | Long | | Alan | Suzhou | Very
Long | | Alan | Tama | Very Long | | Michael | Guaíba | Long | | Michael | Nagoya | Very Long | | Michael | Saint
Helier | Short | | Sara | Jaunpur | Very Long | | Sara | Saint Helier | Short | | Sara | Zürich | Long | | Sean |
Dordrecht | Very Long | | Sean | Shangqiu | Very Long | | Tom | Dordrecht | Very Long | | Tom | Muntinlupa | Very
Long | | Tom | São Lourenço da Mata | Short | | Tom | Suzhou | Long | | Tom | Sydney | Very Long | | Tom |
Tanjung Pinang | Very Long | +-----+-----+-----+ 18 rows in set (0.00 sec)
```