1 point

1. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER diagram in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate answers.

Pull a list of customer ids with the customer's full name, and address, along with combining their city and country together. Be sure to make a space in between these two and make it UPPER CASE.

```
1  SELECT CustomerID, FirstName, LastName, Address,
2         UPPER(City || ' '||Country)
3  FROM Customers
4  WHERE CustomerID = 16
```

Run

Reset

```
+------------+-----------+----------+------------------------
---+-----------------------------+
| CustomerId | FirstName | LastName | Address
   | UPPER(City || ' '||Country) |
+------------+-----------+----------+------------------------
---+-----------------------------+
|         16 | Frank     | Harris   | 1600 Amphitheatre Parkw
ay | MOUNTAIN VIEW USA           |
+------------+-----------+----------+------------------------
---+-----------------------------+
```

What is the city and country result for CustomerID 16?

MOUNTAIN VIEW USA

1 point

2. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER diagram in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate answers.

Create a new employee user id by combining the first 4 letter of the employee's first name with the first 2 letters of the employee's last name. Make the new field lower case and pull each individual step to show your work.

```
1  SELECT LOWER(SUBSTR(FirstName, 1,4) || SUBSTR(LastName,1,2)),
2         FirstName,
3         LastName
4  FROM Employees
5  WHERE FirstName = 'Robert'
6  AND LastName = 'King'
```

Run

Reset

```
+-----------------------------------------------------+----
-------+----------+
| LOWER(SUBSTR(FirstName, 1,4) || SUBSTR(LastName,1,2)) | Fir
stName | LastName |
+-----------------------------------------------------+----
-------+----------+
| robeki                                                | Rob
ert    | King     |
+-----------------------------------------------------+----
-------+----------+
```

What is the final result for Robert King?

robeki

1 point

3. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER diagram in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate answers.

Show a list of employees who have worked for the company for 15 or more years using the current date function. Sort by lastname ascending.

```
1  SELECT FirstName, LastName, HireDate,
2         STRFTIME('%Y', 'now') as current_year,
3         STRFTIME('%Y', HireDate) as hire_year,
4         STRFTIME('%Y', 'now') - STRFTIME('%Y', HireDate) as work_year
5  FROM Employees
6  WHERE STRFTIME('%Y', 'now') - STRFTIME('%Y', HireDate)>=15
7  ORDER BY LastName ASC
```

Run

Reset

```
+-----------+----------+---------------------+--------------+
-----------+-----------+
| FirstName | LastName | HireDate            | current_year |
 hire_year | work_year |
+-----------+----------+---------------------+--------------+
-----------+-----------+
| Andrew    | Adams    | 2002-08-14 00:00:00 | 2019         |
 2002      |        17 |
| Laura     | Callahan | 2004-03-04 00:00:00 | 2019         |
 2004      |        15 |
| Nancy     | Edwards  | 2002-05-01 00:00:00 | 2019         |
 2002      |        17 |
| Steve     | Johnson  | 2003-10-17 00:00:00 | 2019         |
 2003      |        16 |
| Robert    | King     | 2004-01-02 00:00:00 | 2019         |
 2004      |        15 |
| Michael   | Mitchell | 2003-10-17 00:00:00 | 2019         |
 2003      |        16 |
| Margaret  | Park     | 2003-05-03 00:00:00 | 2019         |
 2003      |        16 |
| Jane      | Peacock  | 2002-04-01 00:00:00 | 2019         |
 2002      |        17 |
+-----------+----------+---------------------+--------------+
-----------+-----------+
```

What is the lastname of the last person on the list returned?

Peacock

---

1 point

4. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER diagram in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate answers.

Profiling the Customers table, answer the following question.

```
1  SELECT count(*)
2  FROM Customers
3  WHERE Address is NULL
```

Run

Reset

```
+----------+
| count(*) |
+----------+
|        0 |
+----------+
```

Are there any columns with null values? Indicate any below. Select all that apply.

- [x] FirstName
- [ ] Fax
- [ ] Phone
- [ ] Postal Code
- [ ] Company
- [x] Address

---

1 point

5. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER diagram in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate answers.

Find the cities with the most customers and rank in descending order.

```
1  SELECT count(CustomerId), City
2  FROM Customers
3  GROUP BY City
4  ORDER BY count(CustomerId) DESC
```

Run

Reset

```
+------------------+---------------+
| count(CustomerId) | City          |
+------------------+---------------+
|                2 | Berlin        |
|                2 | London        |
|                2 | Mountain View |
|                2 | Paris         |
|                2 | Prague        |
|                2 | São Paulo     |
|                1 | Amsterdam     |
|                1 | Bangalore     |
|                1 | Bordeaux      |
|                1 | Boston        |
|                1 | Brasília      |
|                1 | Brussels      |
|                1 | Budapest      |
|                1 | Buenos Aires  |
|                1 | Chicago       |
|                1 | Copenhagen    |
|                1 | Cupertino     |
|                1 | Delhi         |
|                1 | Dijon         |
|                1 | Dublin        |
|                1 | Edinburgh     |
|                1 | Edmonton      |
|                1 | Fort Worth    |
|                1 | Frankfurt     |
|                1 | Halifax       |
+------------------+---------------+
(Output limit exceeded, 25 of 53 total rows shown)
```

Module 4 Coding Questions

Quiz, 6 questions

Which of the following cities indicate having 2 customers?

- [ ] Budapest
- [ ] Dublin
- [ ] Frankfurt
- [ ] Mountain View
- [ ] São Paulo
- [ ] London

1 point

6. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER diagram in order to familiarize yourself with the table and column names in order to write accurate queries and get the appropriate answers.

Create a new customer invoice id by combining a customer's invoice id with their first and last name while ordering your query in the following order: firstname, lastname, and invoiceID.

```
1  SELECT c.FirstName, c.LastName, i.InvoiceId,
2         c.FirstName|| c.LastName || i.InvoiceId
3  FROM Invoices as i
4  JOIN Customers as c ON i.CustomerId = c.CustomerId
5  ORDER BY c.FirstName, c.LastName, i.InvoiceId
```

Run

Reset

```
+-----------+----------+-----------+------------------------
----------------+
| FirstName | LastName | InvoiceId | c.FirstName|| c.LastName
 || i.InvoiceId |
+-----------+----------+-----------+------------------------
----------------+
| Aaron     | Mitchell |        50 | AaronMitchell50
                |
| Aaron     | Mitchell |        61 | AaronMitchell61
                |
| Aaron     | Mitchell |       116 | AaronMitchell116
                |
| Aaron     | Mitchell |       245 | AaronMitchell245
                |
| Aaron     | Mitchell |       268 | AaronMitchell268
                |
| Aaron     | Mitchell |       290 | AaronMitchell290
                |
| Aaron     | Mitchell |       342 | AaronMitchell342
                |
| Alexandre | Rocha    |        57 | AlexandreRocha57
                |
| Alexandre | Rocha    |        68 | AlexandreRocha68
                |
| Alexandre | Rocha    |       123 | AlexandreRocha123
                |
| Alexandre | Rocha    |       252 | AlexandreRocha252
                |
| Alexandre | Rocha    |       275 | AlexandreRocha275
                |
| Alexandre | Rocha    |       297 | AlexandreRocha297
                |
| Alexandre | Rocha    |       349 | AlexandreRocha349
                |
| Astrid    | Gruber   |        78 | AstridGruber78
                |
| Astrid    | Gruber   |        89 | AstridGruber89
                |
| Astrid    | Gruber   |       144 | AstridGruber144
                |
| Astrid    | Gruber   |       273 | AstridGruber273
                |
| Astrid    | Gruber   |       296 | AstridGruber296
                |
| Astrid    | Gruber   |       318 | AstridGruber318
                |
| Astrid    | Gruber   |       370 | AstridGruber370
                |
| Bjørn     | Hansen   |         2 | BjørnHansen2
                |
| Bjørn     | Hansen   |        24 | BjørnHansen24
                |
| Bjørn     | Hansen   |        76 | BjørnHansen76
                |
| Bjørn     | Hansen   |       197 | BjørnHansen197
                |
+-----------+----------+-----------+------------------------
----------------+
(Output limit exceeded, 25 of 412 total rows shown)
```

Select all of the correct "AstridGruber" entries that are returned in your results below. Select all that apply.

- [ ] AstridGruber273
- [ ] AstridGruber296
- [ ] AstridGruber354
- [ ] AstridGruber370
- [ ] AstridGruber408
- [ ] AstridGruber456

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