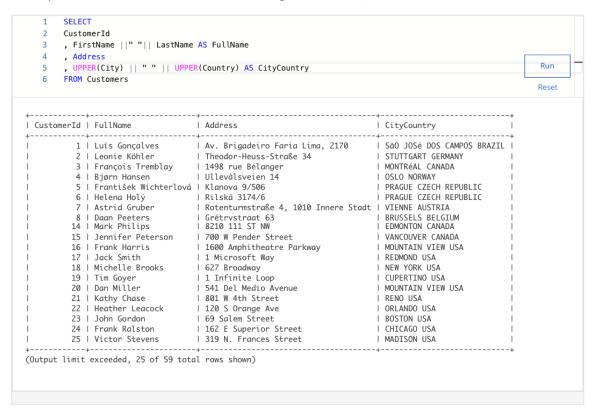# Module 4 Coding Questions

TOTAL POINTS 6

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. (e.g. LOS ANGELES USA)

```
1   SELECT
2   CustomerId
3   , FirstName ||" "|| LastName AS FullName
4   , Address
5   , UPPER(City) || " " || UPPER(Country) AS CityCountry
6   FROM Customers
```

Run

Reset

```
+-----------+-----------------------+-----------------------------------------+---------------------------+
| CustomerId | FullName             | Address                                 | CityCountry               |
+-----------+-----------------------+-----------------------------------------+---------------------------+
|         1 | Luís Gonçalves        | Av. Brigadeiro Faria Lima, 2170         | SãO JOSé DOS CAMPOS BRAZIL |
|         2 | Leonie Köhler         | Theodor-Heuss-Straße 34                 | STUTTGART GERMANY         |
|         3 | François Tremblay     | 1498 rue Bélanger                       | MONTRéAL CANADA           |
|         4 | Bjørn Hansen          | Ullevålsveien 14                        | OSLO NORWAY               |
|         5 | František Wichterlová  | Klanova 9/506                           | PRAGUE CZECH REPUBLIC     |
|         6 | Helena Holý           | Rilská 3174/6                           | PRAGUE CZECH REPUBLIC     |
|         7 | Astrid Gruber         | Rotenturmstraße 4, 1010 Innere Stadt    | VIENNE AUSTRIA            |
|         8 | Daan Peeters          | Grétrvstraat 63                         | BRUSSELS BELGIUM          |
|        14 | Mark Philips          | 8210 111 ST NW                          | EDMONTON CANADA           |
|        15 | Jennifer Peterson     | 700 W Pender Street                     | VANCOUVER CANADA          |
|        16 | Frank Harris          | 1600 Amphitheatre Parkway               | MOUNTAIN VIEW USA         |
|        17 | Jack Smith            | 1 Microsoft Way                         | REDMOND USA               |
|        18 | Michelle Brooks       | 627 Broadway                            | NEW YORK USA              |
|        19 | Tim Goyer             | 1 Infinite Loop                         | CUPERTINO USA             |
|        20 | Dan Miller            | 541 Del Medio Avenue                    | MOUNTAIN VIEW USA         |
|        21 | Kathy Chase           | 801 W 4th Street                        | RENO USA                  |
|        22 | Heather Leacock       | 120 S Orange Ave                        | ORLANDO USA               |
|        23 | John Gordon           | 69 Salem Street                         | BOSTON USA                |
|        24 | Frank Ralston         | 162 E Superior Street                   | CHICAGO USA               |
|        25 | Victor Stevens        | 319 N. Frances Street                   | MADISON USA               |
+-----------+-----------------------+-----------------------------------------+---------------------------+
(Output limit exceeded, 25 of 59 total rows shown)
```

What is the city and country result for CustomerID 16?

Enter answer here

Create a new employee user id by combining the first 4 letters 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
2   LOWER(substr(LastName, 1,2) || substr(FirstName,1, 4)) AS NewID
3   FROM Employees
```

Run

Reset

```
+--------+
| NewID  |
+--------+
| adandr |
| ednanc |
| pejane |
| pamarg |
| jostev |
| mimich |
| kirobe |
| calaur |
+--------+
```

Enter answer here

---

3. All of the questions in this quiz refer to the open source Chinook Database. Please familiarize yourself with the ER

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 HIREDATE FROM Employees -- check the date format
2
3   SELECT
4   LastName,
5   FirstName,
6   STRFTIME('%Y', 'now')- STRFTIME("%Y",HireDate) AS WorkingYear
7   FROM Employees
8   WHERE WorkingYear >= 15
9   ORDER BY LastName ASC
10
```

Run

```
| LastName  | FirstName | WorkingYear |
+-----------+-----------+-------------+
| Adams     | Andrew    |         19  |
| Callahan  | Laura     |         17  |
| Edwards   | Nancy     |         19  |
| Johnson   | Steve     |         18  |
| King      | Robert    |         17  |
| Mitchell  | Michael   |         18  |
| Park      | Margaret  |         18  |
| Peacock   | Jane      |         19  |
+-----------+-----------+-------------+
```

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

Enter answer here

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

1 point

```
1   SELECT COUNT(*)
2   FROM Customers
3   WHERE coalesce(FirstName, PostalCode, Company, Fax, Phone, Address) IS NULL
4
```

Run

Reset

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

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

☐ FirstName

☐ Postal Code

☐ Company

☐ Fax

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.

1 point

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

```
1   SELECT
2   City,
3   COUNT(CustomerId) AS CustomerCount
4   FROM Customers
5   GROUP BY City
6   ORDER BY CustomerCount DESC
7
```

Run

Reset

```
| Paris      |           2 |
| Prague     |           2 |
| São Paulo  |           2 |
| 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    |           1 |
+--------------+---------------+
(Output limit exceeded, 25 of 53 total rows shown)
```

☐ Budapest

☐ Mountain View

☐ São Paulo

☐ Frankfurt

☐ London

☐ Dublin

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.

1 point

Create a new customer invoice id by combining a customer's invoice id with their first and last name while ordering your

```
4     INNER JOIN Invoices I
5     ON C.CustomerID = I.CustomerID
6     ORDER BY NewInvoiceID ASC
```

Run

Reset

```
+--------------------+
| NewInvoiceID       |
+--------------------+
| AaronMitchell116   |
| AaronMitchell245   |
| AaronMitchell268   |
| AaronMitchell290   |
| AaronMitchell342   |
| AaronMitchell50    |
| AaronMitchell61    |
| AlexandreRocha123  |
| AlexandreRocha252  |
| AlexandreRocha275  |
| AlexandreRocha297  |
| AlexandreRocha349  |
| AlexandreRocha57   |
| AlexandreRocha68   |
| AstridGruber144    |
| AstridGruber273    |
| AstridGruber296    |
| AstridGruber318    |
| BjørnHansen208     |
| BjørnHansen24      |
+--------------------+
(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

Upgrade to submit

- [ ] AstridGruber354
- [ ] AstridGruber370
- [ ] AstridGruber408
- [ ] AstridGruber456