Module 4 Coding Questions

Latest Submission Grade 100%

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. **1 / 1 point**

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
4   ,LastName
5   ,Address
6   ,UPPER(City ||' (' || Country || ')') AS City_Country
7
8   FROM Customers
```

Run

Reset

CustomerId	FirstName	LastName	Address	City_Country
1	Luís	Gonçalves	Av. Brigadeiro Faria Lima, 2170	SãO JOSé DOS CAMPO
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 REPU
6	Helena	Holý	Rilská 3174/6	PRAGUE (CZECH REPU
7	Astrid	Gruber	Rotenturmstraße 4, 1010 Innere Stadt	VIENNE (AUSTRIA)
8	Daan	Peeters	Grétrystraat 63	BRUSSELS (BELGIUM)
9	Kara	Nielsen	Sønder Boulevard 51	COPENHAGEN (DENMAR
10	Eduardo	Martins	Rua Dr. Falcão Filho, 155	SãO PAULO (BRAZIL)
11	Alexandre	Rocha	Av. Paulista, 2022	SãO PAULO (BRAZIL)
12	Roberto	Almeida	Praça Pio X, 119	RIO DE JANEIRO (BR
13	Fernanda	Ramos	Qe 7 Bloco G	BRASíLIA (BRAZIL)
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)

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What is the city and country result for CustomerID 16?

MOUNTAIN VIEW USA

Correct

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. **1 / 1 point**

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(FirstName,1, 4) || SUBSTR(LastName,1, 2)) AS New_Id
3
4   FROM Employees
```

Run

Reset

```
+--------+
| New_Id |
+--------+
| andrad |
| nanced |
| janepe |
| margpa |
| stevjo |
| michmi |
| robeki |
| laurca |
+--------+
```

What is the final result for Robert King?

robeki

Correct

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. **1 / 1 point**

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
```

```
2   FirstName
3   ,LastName
4   ,CURRENT_DATE - HireDate as Years_employed
5
6   FROM Employees
7   WHERE Years_employed >= 15
8
```

Run

Reset

FirstName	LastName	Years_employed
Andrew	Adams	19
Nancy	Edwards	19
Jane	Peacock	19
Margaret	Park	18
Steve	Johnson	18
Michael	Mitchell	18
Robert	King	17
Laura	Callahan	17

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

Peacock

Correct

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. **1 / 1 point**

Profiling the Customers table, answer the following question.

```
1   SELECT
2   COUNT(*)
3   ,COUNT(Fax)
4   ,COUNT(FirstName)
5   ,COUNT(Phone)
6   ,COUNT(Company)
7   ,COUNT(Address)
8   ,COUNT(PostalCode)
9   FROM Customers
```

Run

Reset

COUNT(*)	COUNT(Fax)	COUNT(FirstName)	COUNT(Phone)	COUNT(Company)	COUNT(Address)	COU
59	12	59	58	10	59	

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

- [x] Phone

Correct

- [ ] FirstName
- [x] Postal Code

Correct

- [x] Fax

Correct

- [ ] Address
- [x] Company

Correct

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 / 1 point**

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

```
1  SELECT
2  COUNT(*) AS Nr_Customers
3  ,City
4
5  FROM Customers
6  GROUP BY City
7  HAVING Nr_Customers>1
8  ORDER BY Nr_Customers DESC
9
```

Run

Reset

```
+--------------+---------------+
| Nr_Customers | City          |
+--------------+---------------+
|            2 | Berlin        |
|            2 | London        |
|            2 | Mountain View |
|            2 | Paris         |
|            2 | Prague        |
|            2 | São Paulo     |
+--------------+---------------+
```

Which of the following cities indicate having 2 customers?

- [ ] Frankfurt
- [ ] Budapest
- [x] London

Correct

- [x] São Paulo

Correct

- [x] Mountain View

Correct

- [ ] 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 / 1 point**

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
2      c.FirstName || c.LastName || I.InvoiceID AS New_Id
3
4  FROM Invoices i
5      INNER JOIN Customers c ON c.CustomerId=i.CustomerId
```

```
    6
    7   ORDER BY New_Id
```

Run

Reset

```
+--------------------+
| New_Id             |
+--------------------+
| AaronMitchell116   |
| AaronMitchell245   |
| AaronMitchell268   |
| AaronMitchell290   |
| AaronMitchell342   |
| AaronMitchell50    |
| AaronMitchell61    |
| AlexandreRocha123  |
| AlexandreRocha252  |
| AlexandreRocha275  |
| AlexandreRocha297  |
| AlexandreRocha349  |
| AlexandreRocha57   |
| AlexandreRocha68   |
| AstridGruber144    |
| AstridGruber273    |
| AstridGruber296    |
| AstridGruber318    |
| AstridGruber370    |
| AstridGruber78     |
| AstridGruber89     |
| BjørnHansen197     |
| BjørnHansen2       |
| BjørnHansen208     |
| BjørnHansen24      |
+--------------------+
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```

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

- [x] AstridGruber273

Correct

- [x] AstridGruber296

Correct

- [ ] AstridGruber354
- [x] AstridGruber370

Correct

- [ ] AstridGruber408
- [ ] AstridGruber456