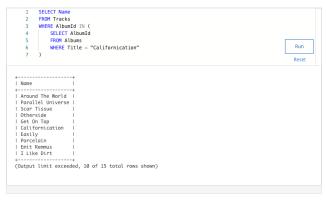# Module 3 Coding Assignment

TOTAL POINTS 7

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 point`

   Using a subquery, find the **name**s of all the **tracks** for the album "Californication".

   ```
   1   SELECT Name
   2   FROM Tracks
   3   WHERE AlbumId IN (
   4       SELECT AlbumId
   5       FROM Albums
   6       WHERE Title = "Californication"
   7   )
   ```

   `Run`
   `Reset`

   ```
   +-------------------+
   | Name              |
   +-------------------+
   | Around The World  |
   | Parallel Universe |
   | Scar Tissue       |
   | Otherside         |
   | Get On Top        |
   | Californication   |
   | Easily            |
   | Porcelain         |
   | Emit Remmus       |
   | I Like Dirt       |
   +-------------------+
   (Output limit exceeded, 10 of 15 total rows shown)
   ```

   What is the title of the 8th track?

   `Enter answer here`

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 point`

   Find the total number of invoices for each customer along with the customer's full name, city and email.

   ```
   1   SELECT
   2     C.FirstName
   3     , C.LastName
   4     , C.City
   5     , C.Email
   6     , count(I.InvoiceId) as TotalInvoices
   7   FROM Customers C
   8   INNER JOIN Invoices I
   9   ON C.CustomerId = I.CustomerId
   10  GROUP BY C.CustomerId
   11
   ```

   `Run`
   `Reset`

   ```
   +-----------+-------------+--------------------+-----------------------------+---------------+
   | FirstName | LastName    | City               | Email                       | TotalInvoices |
   +-----------+-------------+--------------------+-----------------------------+---------------+
   | Luis      | Gonçalves   | São José dos Campos | luisg@embraer.com.br       |             7 |
   | Leonie    | Köhler      | Stuttgart          | leonekohler@surfeu.de       |             7 |
   | François  | Tremblay    | Montréal           | ftremblay@gmail.com         |             7 |
   | Bjørn     | Hansen      | Oslo               | bjorn.hansen@yahoo.no       |             7 |
   | František | Wichterlová | Prague             | frantisekw@jetbrains.com    |             7 |
   | Helena    | Holý        | Prague             | hholy@gmail.com             |             7 |
   | Astrid    | Gruber      | Vienne             | astrid.gruber@apple.at      |             7 |
   | Daan      | Peeters     | Brussels           | daan_peeters@apple.be       |             7 |
   | Kara      | Nielsen     | Copenhagen         | kara.nielsen@jubii.dk       |             7 |
   | Eduardo   | Martins     | São Paulo          | eduardo@woodstock.com.br    |             7 |
   +-----------+-------------+--------------------+-----------------------------+---------------+
   (Output limit exceeded, 10 of 59 total rows shown)
   ```

   After running the query described above, what is the email address of the 5th person, František Wichterlová? Enter the answer below (feel free to copy and paste).

   `Enter answer here`

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 point`

   Retrieve the track name, album, artistID, and trackID for all the albums.

   ```
   1   SELECT A.ArtistID
   2     , A.title
   3     , T.Name
   4     , T.TrackId
   5   FROM Albums A
   6   INNER JOIN Tracks T
   7   ON A.AlbumId = T.AlbumId
   8
   ```

   `Run`
   `Reset`

   ```
   +----------+------------------------------------+------------------------------------+---------+
   | ArtistId | Title                              | Name                               | TrackId |
   +----------+------------------------------------+------------------------------------+---------+
   |        1 | For Those About To Rock We Salute You | For Those About To Rock (We Salute You) |       1 |
   |        1 | For Those About To Rock We Salute You | Put The Finger On You            |       6 |
   |        1 | For Those About To Rock We Salute You | Let's Get It Up                  |       7 |
   |        1 | For Those About To Rock We Salute You | Inject The Venom                 |       8 |
   |        1 | For Those About To Rock We Salute You | Snowballed                       |       9 |
   |        1 | For Those About To Rock We Salute You | Evil Walks                       |      10 |
   |        1 | For Those About To Rock We Salute You | C.O.D.                           |      11 |
   |        1 | For Those About To Rock We Salute You | Breaking The Rules               |      12 |
   |        1 | For Those About To Rock We Salute You | Night Of The Long Knives         |      13 |
   |        1 | For Those About To Rock We Salute You | Spellbound                       |      14 |
   +----------+------------------------------------+------------------------------------+---------+
   (Output limit exceeded, 10 of 3503 total rows shown)
   ```

   What is the song title of trackID 12 from the "For Those About to Rock We Salute You" album? Enter the answer below.

   `Enter answer here`

```
| Peacock          | Edwards        |
| Park             | Edwards        |
| Johnson          | Edwards        |
| King             | Mitchell       |
| Callahan         | Mitchell       |
+------------------+----------------+
```

After running the query described above, who are the reports for the manager named Mitchell (select all that apply)?

- [ ] Callahan

- [ ] King

- [ ] Edwards

- [ ] Park

- [ ] Johnson

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 name and ID of the artists who do not have albums.

```
1  SELECT
2  AR.ArtistID
3  , AR.Name
4  FROM Artists AR
5  LEFT JOIN Albums AL
6  ON AR.ArtistID = AL.ArtistID
7  WHERE AL.ArtistID is NULL
8
```
Run
Reset

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 name and ID of the artists who do not have albums.

```
1  SELECT
2  AR.ArtistID
3  , AR.Name
4  FROM Artists AR
5  LEFT JOIN Albums AL
6  ON AR.ArtistID = AL.ArtistID
7  WHERE AL.ArtistID is NULL
8
```
Run
Reset

```
+----------+----------------------------+
| ArtistId | Name                       |
+----------+----------------------------+
|       25 | Milton Nascimento & Bebeto |
|       26 | Azymuth                    |
|       28 | João Gilberto              |
|       29 | Bebel Gilberto             |
|       30 | Jorge Vercilo              |
|       31 | Baby Consuelo              |
|       32 | Ney Matogrosso             |
|       33 | Luiz Melodia               |
|       34 | Nando Reis                 |
|       35 | Pedro Luís & A Parede      |
+----------+----------------------------+
(Output limit exceeded, 10 of 71 total rows shown)
```

After running the query described above, two of the records returned have the same last name. Enter that name below.

Enter answer here

Enter answer here

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`

   Use a UNION to create a list of all the employee's and customer's first names and last names ordered by the last name in descending order.

```
1   SELECT
2   FirstName
3   ,LastName
4   FROM Employees
5
6   UNION
7
8   SELECT
9   FirstName
10  ,LastName
11  FROM Customers
12
13  ORDER BY LastName DESC
```
Run
Reset

```
+-----------+--------------+
| FirstName | LastName     |
+-----------+--------------+
| Fynn      | Zimmermann   |
| Stanisław | Wójcik       |
| František | Wichterlová  |
| Johannes  | Van der Berg |
| François  | Tremblay     |
| Mark      | Taylor       |
| Ellie     | Sullivan     |
| Victor    | Stevens      |
| Puja      | Srivastava   |
| Jack      | Smith        |
+-----------+--------------+
(Output limit exceeded, 10 of 67 total rows shown)
```

After running the query described above, determine what is the last name of the 6th record? Enter it below. Remember to order things in descending order be sure to get the correct answer.

```
Enter answer here
```

7. 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`

    See if there are any customers who have a different city listed in their billing city versus their customer city.

```sql
1   SELECT C.City
2   , I.BillingCity
3   FROM Customers C
4   INNER JOIN Invoices I
5   WHERE I.CustomerID = C.CustomerID
6   AND C.City != I.BillingCity
7
```

Run

Reset

```
+------+-------------+
| City | BillingCity |
+------+-------------+
+------+-------------+
(Zero rows)
```

Indicate your answer below.

○ No customers have a different city listed in their billing city versus customer city.

○ 3 customers have a different city listed in their billing city versus customer city.

○ 8 customers have a different city listed in their billing city versus customer city.

○ 17 customers have a different city listed in their billing city versus customer city.

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