**Inserting, updating and deleting**

Introduction

As your music downloads business grows, the database is in need of administration.

For this activity you will need:

* DB Browser for SQLite
* A **copy** of the dbMusic.db file which you used last lesson.



Run the following scripts one at a time.

Inserting .

|  |  |
| --- | --- |
| 1  2 | INSERT INTO tblMembers (Firstname,Surname, Email, Password)  VALUES(“Nicole”, “Battle”,”Nbat@mail.com”,”Nr5@Wd”); |

Now we need to check that this worked by running a SELECT query. Try running the following to see if Nicole now exists in our database:

|  |  |
| --- | --- |
| 1  2  3 | SELECT \*  FROM tblMembers  WHERE Surname = “Battle”; |

Updating .

|  |  |
| --- | --- |
| 1  2  3 | UPDATE tblMembers  SET password = “H&cv4wpvd$”  WHERE MemberID = 3; |

Run a SELECT query to show that this query has updated the password successfully and write down your query script below:

|  |  |
| --- | --- |
| 1  2  3 | SELECT Password  FROM tblMembers  WHERE MemberID = 3; |

Deleting.

|  |  |
| --- | --- |
| 1  2 | DELETE FROM tblDownloads  WHERE MemberID = 41; |

Again, run a SELECT query to double check that member 41 no longer exists in the database and write down your query script below:

|  |  |
| --- | --- |
| 1  2  3 | SELECT MemberID  FROM tblDownloads  WHERE MemberID = 41; |

Tasks .

**Task 1:** The Artist “Angry Pete” has notified us that after a career break has returned as a different man and would now like to be known as “Happy Pete”. He has requested that the data in our database is adjusted accordingly.

Write a script that will perform this action and document your script below:

|  |  |
| --- | --- |
| 1  2  3 | UPDATE tblTracks  SET Artist = "Happy Pete"  WHERE Artist = "Angry Pete"; |

**Task 2**: Recent download data has just been passed to you. Please insert the relevant information into the database.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Member ID** | **FirstName** | **Surname** | **TrackID** | **Title** | **Date** | **Time** |
| 53 | Ben | Garside | 11 | Lost in it all | 2020-07-01 | 14:31 |
| 50 | Rebecca | Franks | 13 | Cheese Pops | 2020-07-02 | 18:04 |
| 52 | Allen | Heard | 49 | Keep it real | 2020-07-06 | 00:03 |

Hint: Consider which table you need to insert the data into and does all of the data provided above need to be entered?

Write a script that will perform this action and document your script below:

|  |  |
| --- | --- |
| 1  2  3  4 | INSERT INTO tblDownloads (MemberID, TrackID, Date, Time)  VALUES(53, 11, "2020-07-01", "14:31");  VALUES(50, 13, "2020-07-02", "18:04");  VALUES(52, 49, "2020-07-06", "00:03"); |

**Task 3**: There was a glitch on our system between the 1st November 2019 and 19th November 2019. The system incorrectly recorded the song they tried to download. Update the system so that all songs downloaded between these dates are set to having downloaded “Stomp” by “The Kings”.

To solve this problem start by answering the following questions:

|  |  |
| --- | --- |
| **Which table will you have to update?** | tblDownloads |
| **What is the track ID for “Stomp” by the “Kings”** | 5 |
| **What type of query do you need to use (update, delete, insert)?** | UPDATE |
| **Which comparison operator do you need?**  **Hint: (**[sqlitetutorial.net/sqlite-between/](https://www.sqlitetutorial.net/sqlite-between/)**)** | WHERE Date BETWEEN "2019-11-01" AND "2019-11-19" |
| **Write down the correct date format for 1st November 2019** | 2019-11-01 |

Write down the script that solved this problem below:

|  |  |
| --- | --- |
| 1  2  3 | UPDATE tblDownloads  SET TrackID = 5  WHERE Date BETWEEN "2019-11-01" AND "2019-11-19" |

Explorer activities .

We have just lost a contract with the band “The Feast” and can no longer offer their track for our members to download. Find a way to remove “The Feast” from our database.

Note that this requires some problem solving skills.

Write a description of what the problem was:

|  |  |
| --- | --- |
| **Answer** |  |

Describe how you solved the problem:

|  |  |
| --- | --- |
| **Answer** |  |

By solving the problem this way, can you think of why this might be problematic for the data in the database?

|  |  |
| --- | --- |
| **Answer** |  |