

# JOIN Syntax Homework

Using the Chinook database and SQL Server Management Studio (SSMS), write SQL queries for the following questions. Submit your answers in a single SQL file to the online portal. Use SQL's commenting syntax to include your name at the top of the file. Also include the question number as a comment before each answer. The answer key to the questions will be released after the deadline to submit homework has passed.

1. Use the Artist and Album tables.  
Display the Artist Name as "ArtistName", and Album Title as "AlbumTitle".  
Only include those artists whose name starts with A through D and have an album in the Album table.  
Order the results by ArtistName and AlbumTitle in ascending order.  
(86 Rows)
2. Use the Artist and Album tables.  
Display the Artist Name as "ArtistName", and Album Title as "AlbumTitle".  
Include all artists whose name starts with A through D even if they don't have a record in the Album table.  
Order the results by ArtistName and AlbumTitle in ascending order.  
(103 Rows)
3. Show the Artist and Track name for tracks that have the Genre name "Alternative".  
Call Artist Name "ArtistName"  
Call Track Name "TrackName"  
Order by ArtistName then TrackName in ascending order.  
(40 Rows)
4. Create a cartesian product using the first and last names of the Employee table.  
Display FirstName and LastName.  
Each first name should have a record match with every last name in the table.  
Hint: You'll need to use a self-join.  
(Rows 64)
5. Display the Artist, Album, Track and Genre names of the tracks on the "Grunge" playlist.  
Use the Playlist table to identify "Grunge" tracks.  
Call Playlist Name "PlaylistName"  
Call Artist Name "ArtistName"  
Call Album Title "AlbumName"  
Call Track Name "TrackName"  
Call Genre Name "GenreName"  
(15 Rows)
6. Use the Album and Track tables  
Display the Album Title, Track Name and Milliseconds.  
Display Milliseconds as seconds and name it Seconds.  
Filter where the title = "Let There Be Rock".  
(8 Rows)

7. Return all Customers and the Employees who are their support reps.  
Display Employee first and last name, Customer first and last name, and Customer country.  
Concatenate the employee's first and last name with a space in between. Call the column CustomerRep.  
Concatenate the customer's first and last name with a space in between. Call the column CustomerName.  
Order by CustomerRep and the customer's Country.  
(59 Rows)
8. Return all Track names and their Album titles.  
Display Album Title, Track Name, and Invoiceld.  
Display the Track Name even if it does not have an associated Invoiceld.  
(Note some Tracks may have more than one Invoiceld.)  
Order by Track Name and Invoiceld in descending order.  
(3759 Rows)
9. Return all employees and the name of the person they report to.  
Display EmployeeId, LastName, FirstName, ReportsTo, ManagerName  
Manager name is the concatenated first and last name of an employee's manager.  
If employee doesn't have a manager then enter 'N/A' in the MangerName column.  
Hint: You'll need a self-join.  
(8 Rows)
10. Return all album tracks purchased by Julia Barnett.  
Display customer LastName, Album Title, Track Name, and Inventory InvoiceDate.  
Display InvoiceDate in this format - dd/mm/yyyy - and rename the column PurchaseDate.  
Order the records by InvoiceDate, Title and Name.  
(38 Rows)