# Introduction to SQL Part 1

Today's lab is all about writing SQL code to pull data from databases.

This is essential knowledge for all data-related careers, including:

- Data analyst
- Database administrator
- Data scientist
- Data engineer

# Write SQL code to retrieve data from the Chinook database

All of today's questions are based on the tracks table from the Chinook database.

## **Tracks**

TrackId <mark>→ I</mark> Name	AlbumId 🕶	MediaTypeId 🔏	Genreld 💌	Milliseconds 💌	Bytes 💌	UnitPrice 💌
11 C.O.D.	1	1	1	199836	6566314	0.99
119 Roadrunner	12	1	5	143595	2301989	0.99
691 Have You Ever Seen The Rain?	54	1	1	160052	5263675	0.99
1089 Is This Love (Live)	86	1	7	295262	9819759	0.99
1136 Boulevard Of Broken Dreams	89	1	4	260858	8485122	0.99
1388 Children Of The Damned	112	1	3	274364	3845631	0.99
1395 Sign Of The Cross	113	1	1	678008	27121792	0.99
1548 Breaking The Law (Live)	125	1	3	144195	4728246	0.99
1766 Ainda Lembro	145	1	7	218801	7211247	0.99
1959 Aos Leões	161	1	16	234684	7790574	0.99
1990 Smells Like Teen Spirit	163	1	1	287190	9425215	0.99
2344 Maluco Beleza	192	1	1	203206	6628067	0.99
2407 The Trees	196	1	1	285126	9345473	0.99
2576 Sometimes Salvation	209	1	6	389146	12749424	0.99
2743 Baba O'Riley	221	1	1	309472	10141660	0.99
2786 O Pulso	224	1	4	199131	6566998	0.99
3116 Loving The Alien	246	1	1	348786	11412762	0.99
3157 Papel Principal	248	1	7	217495	7325302	0.99

1. Write a SQL query to get all columns from the tracks table.

#### **SELECT \* FROM tracks**;

2. Write a SQL query to select only the Name column from the tracks table.

#### **SELECT Name FROM tracks;**

3. Write a SQL query to select the Name, MediaTypeId and Milliseconds columns in that order from the tracks table.

## SELECT Name, MediaTypeId, Milliseconds FROM tracks;

4. Rewrite your SQL query from question 3 so that the results are sorted by the Milliseconds column. Use the default sorting order.

SELECT Name, MediaTypeId, Milliseconds FROM tracks
ORDER BY Milliseconds;

5. Rewrite your SQL query from question 4 so that the results are sorted in descending order based on Milliseconds.

SELECT Name, MediaTypeId, Milliseconds FROM tracks
ORDER BY Milliseconds DESC;

6. Rewrite your SQL query from question 5 so that it also selects AlbumId after Name.

SELECT Name, AlbumID, MediaTypeId, Milliseconds FROM tracks
ORDER BY Milliseconds DESC;

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7. Rewrite your SQL query from question 6 so that it sorts by AlbumId first (in ascending order) and Milliseconds second (in descending order).

SELECT Name, AlbumID, MediaTypeId, Milliseconds FROM tracks
ORDER BY AlbumId, Milliseconds DESC;

8. Rewrite your SQL query from question 7 so that it only selects those rows with Genreld equal to

SELECT Name, AlbumID, MediaTypeId, Milliseconds FROM tracks WHERE GenreId = 1 ORDER BY AlbumId, Milliseconds DESC;

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