Intermediate Joins in SQL: Takeaways 🖻

by Dataquest Labs, Inc. - All rights reserved @ 2020

Syntax

Joining data from more than two tables:

```
SELECT [column_names] FROM

[tabl@oimetype@]JOIN [table_name_two] ON

[join_ioinstype@]t]OIN [table_name_three] ON

[join_constraint]

...

[join_type] JOIN [table_name_three] ON [join_constraint]
```

• Combining columns into a single column:

```
SELECT

album_id,

artish_hdm id is " || album_id

col_fartist id is " || artist_id

col2album_id || artist_id

EBOB album LIMIT 3;
```

• Matching a part of a string:

```
SELECT

first_name,

last_name,

pROMe

WHBROMEirst_name LIKE "%Jen%";
```

* Using if/then logic in SQL:

```
CASEWHEN [comparison_1] THEN
[valWHEN][comparison_2] THEN
[valdeS2]
[value_3]

AND[new_column_name]
```

Concepts

- A schema diagram helps us understand the available columns and the structure of the data.
- · In a schema diagram, relationships are shown using lines between tables.
- · Each row's primary key must be unique.
- · A recursive join is joining a table to itself.
- The SQL engine will concatenate multiple columns and columns with a string. Also, the SQL engine also handles converting different types where needed.
- We can use the pipe operator (|) to concatenate columns.
- You can use the LIKE statement for partial matches:
 - KJen : will match Jen at the end of a string, e.g., Sarah-Jen.
 - Jen%: will match Jen at the start of a string, e.g., Jenny.
 - WJen : will match Jen anywhere within the string, e.g., Kris Jenner.
- LIKE in SQLite is case insensitive but it may be case sensitive for other flavors of SQL.
 - You might need to use the LOWERO function in other flavors of SQL if is case sensitive.

Resources

- · LOWER function
- · Database Schema



Takeaways by Dataquest Labs, Inc. - All rights reserved © 2020