Building and Organizing Complex Queries: Takeaways

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Syntax

• Using the WITH clause:

• Creating a view:

```
CREATE VIEW chinook.customer_2 AS

SELECT * FROM chinook.customer;
```

• Dropping a view

```
DROP VIEW chinook.customer_2;
```

• Selecting rows that occur in one or more SELECT statements:

```
[select_statement_one]
UNION
[select_statement_two];
```

• Selecting rows that occur in both SELECT statements:

```
SELECT * from customer_usa
INTERSECT
SELECT * from customer_gt_90_dollars;
```

• Selecting rows that occur in the first SELECT statement but not the second SELECT statement:

```
SELECT * from customer_usa

EXCEPT

SELECT * from customer_gt_90_dollars;
```

• Chaining WITH statements:

```
with

usa AS

(
    SELECT * FROM customer

where country = "USA"
),

last_name_g AS

(
    SELECT * FROM usa

    where last_name LIKE "G$"
),

state_ca AS

(
    SELECT * FROM last_name_g

where state = "CA"
)
```

Concepts first_name,

last_name,

- A few tips to help make your queries more readable:
 - If a select statement has more than one column: put each selected column on a new fine; indented from the select statement.

FROM Always-Gapitalize SQL function names and keywords.

- Put each clause of your query on a new line.
- Use indenting to make subqueries appear logically separate.
- A **WITH** statement helps a lot when your main query has some slight complexities.
- A view is a permanently defined **WITH** statement that you can use in all future queries.
- Redefining a view requires having to delete or drop the existing view.
- Statements before and after UNION clause must have the same number of columns, as well as compatible data types.
- Comparison of **UNION**, **INTERSECT**, and **EXCEPT**:

Operator	What it Does	Python Equivalent
UNION	Selects rows that occur in either statement.	or
INTERSECT	Selects rows that occur in both statements.	and
EXCEPT	Selects rows that occur in the first statement, but don't occur in the second statement.	and not

Resources

- SQL Style Guide
- <u>Set Operations</u>



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