Building and Organizing Complex Queries: Takeaways

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Syntax

* Using the WITH clause:

```
WITH track_info

AS

(

SELECT

t.nameg.name

artish].title

aEDOM_bamek

tINNER JOIN album al ON al.album_id =

tIMBBRm_QOEN artist ar ON ar.artist_id =

al.artist_id

$ELECT * FROM

WM&RR_ialbom_name = "Jagged Little Pill";
```

* Creating a view:

```
CREATE VIEW chinook.customer_2

&GLECT * FROM chinook.customer;
```

Dropping a view

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

Selecting rows that occur in one or more SELECT statements:

```
[select_statement_one]

QNEONct_statement_two];
```

Selecting rows that occur in both SELECT statements:

```
SELECT * from

customer_usa

SETERSECTfrom customer_gt_90_dollars;
```

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

statement:

```
SELECT * from

customer_usa

SECERT * from customer_gt_90_dollars;
```

• Chaining WITH statements:

```
HESW
( SELECT * FROM
custWMERE country =
"USA"
last)pame_g
( SELECT * FROM
usa WHERE last_name LIKE
"G%"
stat@_ca
( SELECT * FROM
last<u>W</u>HBNE_gtate =
"CA"
 )
SELECT
first_name,
last_name,
country,
BROKestate_ca
```

Concepts

- · 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 line, indented from the select statement.
 - · Always capitalize 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
- · Set Operations



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