

Queries

1.

```
SELECT SUM(l_quantity)
FROM lineitem
INNER JOIN orders ON l_orderkey = o_orderkey
WHERE o_orderpriority = '1-URGENT';
```

2.

```
CREATE VIEW [Urgent Items Inner Join] as
SELECT *
FROM lineitem
INNER JOIN orders ON l_orderkey = o_orderkey
WHERE o_orderpriority = '1-URGENT';
SELECT SUM(l_quantity) from [Urgent Items Inner Join];
```

3.

```
SELECT sum(l_quantity)
FROM lineitem
INNER JOIN (SELECT * FROM orders WHERE o_orderpriority = '1-URGENT') ON l_orderkey =
o_orderkey;
```

4.

```
CREATE VIEW [Urgent Items Subquery] as
SELECT * FROM lineitem
INNER JOIN (SELECT * FROM orders WHERE o_orderpriority = '1-URGENT') ON l_orderkey
= o_orderkey;
SELECT sum(l_quantity) FROM [Urgent Items Subquery];
```

5.

```
SELECT SUM(l_quantity)
FROM lineitem
INNER JOIN orders ON l_orderkey = o_orderkey
INNER JOIN customer ON o_custkey = c_custkey
INNER JOIN nation ON c_nationkey = n_nationkey
WHERE n_name = 'EGYPT';
```

6.

```
SELECT SUM(l_quantity)
FROM lineitem
INNER JOIN orders ON l_orderkey = o_orderkey
INNER JOIN customer ON o_custkey = c_custkey
INNER JOIN nation ON c_nationkey = n_nationkey
INNER JOIN region ON n_regionkey = r_regionkey
WHERE r_name = 'AFRICA';
```

Terminal Output

```
D:\Hard Drive Downloads\sqlite-tools-win32-x86-3420000\sqlite-tools-win32-x86-3420000\sqlite3.exe
SQLite version 3.42.0 2023-05-16 12:36:15
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite> .open tpch.db
sqlite>
sqlite> DROP VIEW [Urgent Items Inner Join];
sqlite> DROP VIEW [Urgent Items Subquery];
sqlite>
sqlite> SELECT SUM(l_quantity)
...> FROM lineitem
...> INNER JOIN orders ON l_orderkey = o_orderkey
...> WHERE o_orderpriority = '1-URGENT';
30656613
sqlite>
sqlite> CREATE VIEW [Urgent Items Inner Join] as
...> SELECT *
...> FROM lineitem
...> INNER JOIN orders ON l_orderkey = o_orderkey
...> WHERE o_orderpriority = '1-URGENT';
sqlite> SELECT SUM(l_quantity) from [Urgent Items Inner Join];
30656613
sqlite>
sqlite> SELECT sum(l_quantity)
...> FROM lineitem
...> INNER JOIN (SELECT * FROM orders WHERE o_orderpriority = '1-URGENT') ON l_orderkey = o_orderkey;
30656613
sqlite>
sqlite> CREATE VIEW [Urgent Items Subquery] as
...> SELECT * FROM lineitem
...> INNER JOIN (SELECT * FROM orders WHERE o_orderpriority = '1-URGENT') ON l_orderkey = o_orderkey;
sqlite> SELECT sum(l_quantity) FROM [Urgent Items Subquery];
30656613
sqlite>
sqlite> SELECT SUM(l_quantity)
...> FROM lineitem
...> INNER JOIN orders ON l_orderkey = o_orderkey
...> INNER JOIN customer ON o_custkey = c_custkey
...> INNER JOIN nation ON c_nationkey = n_nationkey
...> WHERE n_name = 'EGYPT';
6024134
sqlite>
sqlite> SELECT SUM(l_quantity)
...> FROM lineitem
...> INNER JOIN orders ON l_orderkey = o_orderkey
...> INNER JOIN customer ON o_custkey = c_custkey
...> INNER JOIN nation ON c_nationkey = n_nationkey
...> INNER JOIN region ON n_regionkey = r_regionkey
...> WHERE r_name = 'AFRICA';
30519610
sqlite>
```