

1. SELECT COUNT(n_name) FROM nation;
2. SELECT COUNT(s_suppkey) FROM supplier;
3. SELECT COUNT(s_suppkey) FROM supplier WHERE s_acctbal > 0;
4. SELECT COUNT(c_custkey) FROM customer, nation WHERE c_nationkey = n_nationkey AND n_name = 'EGYPT';
5. SELECT COUNT(DISTINCT p_brand) FROM part;
6. SELECT n_name, r_name FROM nation, region WHERE n_regionkey = r_regionkey ORDER BY n_name ASC;
7. SELECT n_name, COUNT(*) FROM nation, region, supplier WHERE n_regionkey = r_regionkey AND n_nationkey = s_nationkey GROUP BY n_name;
8. SELECT SUM(ps_availqty) FROM supplier, partsupp WHERE ps_suppkey = s_suppkey AND s_name = 'Supplier#000000006';
9. SELECT COUNT(*) FROM lineitem, orders WHERE l_orderkey = o_orderkey AND o_orderpriority = '1-URGENT' AND l_receiptdate > l_commitdate;
10. SELECT r_name, COUNT(*) FROM region, nation, customer WHERE r_regionkey = n_regionkey AND n_nationkey = c_nationkey AND c_acctbal > 0 GROUP BY r_name;

The queries and their outputs are included in the screenshot below, where each query corresponds to the subsequent problem (the first is for Problem 1, the second is for problem 2, etc.)

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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> SELECT COUNT(n_name) FROM nation;
25
sqlite> SELECT COUNT(s_suppkey) FROM supplier;
10000
sqlite> SELECT COUNT(s_suppkey) FROM supplier WHERE s_acctbal > 0;
9114
sqlite> SELECT COUNT(c_custkey) FROM customer, nation WHERE c_nationkey = n_nationkey AND n_name = 'EGYPT';
5995
sqlite> SELECT COUNT(DISTINCT p_brand) FROM part;
25
sqlite> SELECT n_name, r_name FROM nation, region WHERE n_regionkey = r_regionkey ORDER BY n_name ASC;
ALGERIA|AFRICA
ARGENTINA|AMERICA
BRAZIL|AMERICA
CANADA|AMERICA
CHINA|ASIA
EGYPT|MIDDLE EAST
ETHIOPIA|AFRICA
FRANCE|EUROPE
GERMANY|EUROPE
INDIA|ASIA
INDONESIA|ASIA
IRAN|MIDDLE EAST
IRAQ|MIDDLE EAST
JAPAN|ASIA
JORDAN|MIDDLE EAST
KENYA|AFRICA
MOROCCO|AFRICA
MOZAMBIQUE|AFRICA
PERU|AMERICA
ROMANIA|EUROPE
RUSSIA|EUROPE
SAUDI ARABIA|MIDDLE EAST
UNITED KINGDOM|EUROPE
UNITED STATES|AMERICA
VIETNAM|ASIA
sqlite> SELECT n_name, COUNT(*) FROM nation, region, supplier WHERE n_regionkey = r_regionkey AND n_nationkey = s_nationkey GROUP BY
n_name;
ALGERIA|420
ARGENTINA|413
BRAZIL|397
CANADA|412
CHINA|407
EGYPT|415
ETHIOPIA|380
FRANCE|402
GERMANY|396
INDIA|415
INDONESIA|405
IRAN|393
IRAQ|438
JAPAN|377
JORDAN|362
KENYA|376
MOROCCO|373
MOZAMBIQUE|406
PERU|421
ROMANIA|398
RUSSIA|401
SAUDI ARABIA|411
UNITED KINGDOM|390
UNITED STATES|393
VIETNAM|399
sqlite> SELECT SUM(ps_availqty) FROM supplier, partsupp WHERE ps_suppkey = s_suppkey AND s_name = 'Supplier#000000006';
344930
sqlite> SELECT COUNT(*) FROM lineitem, orders WHERE l_orderkey = o_orderkey AND o_orderpriority = '1-URGENT' AND l_receiptdate > l_c
ommitdate;
760684
sqlite> SELECT r_name, COUNT(*) FROM region, nation, customer WHERE r_regionkey = n_regionkey AND n_nationkey = c_nationkey AND c_ac
ctbal > 0 GROUP BY r_name;
AFRICA|27025
AMERICA|27198
ASIA|27454
EUROPE|27471
MIDDLE EAST|27160
sqlite>

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