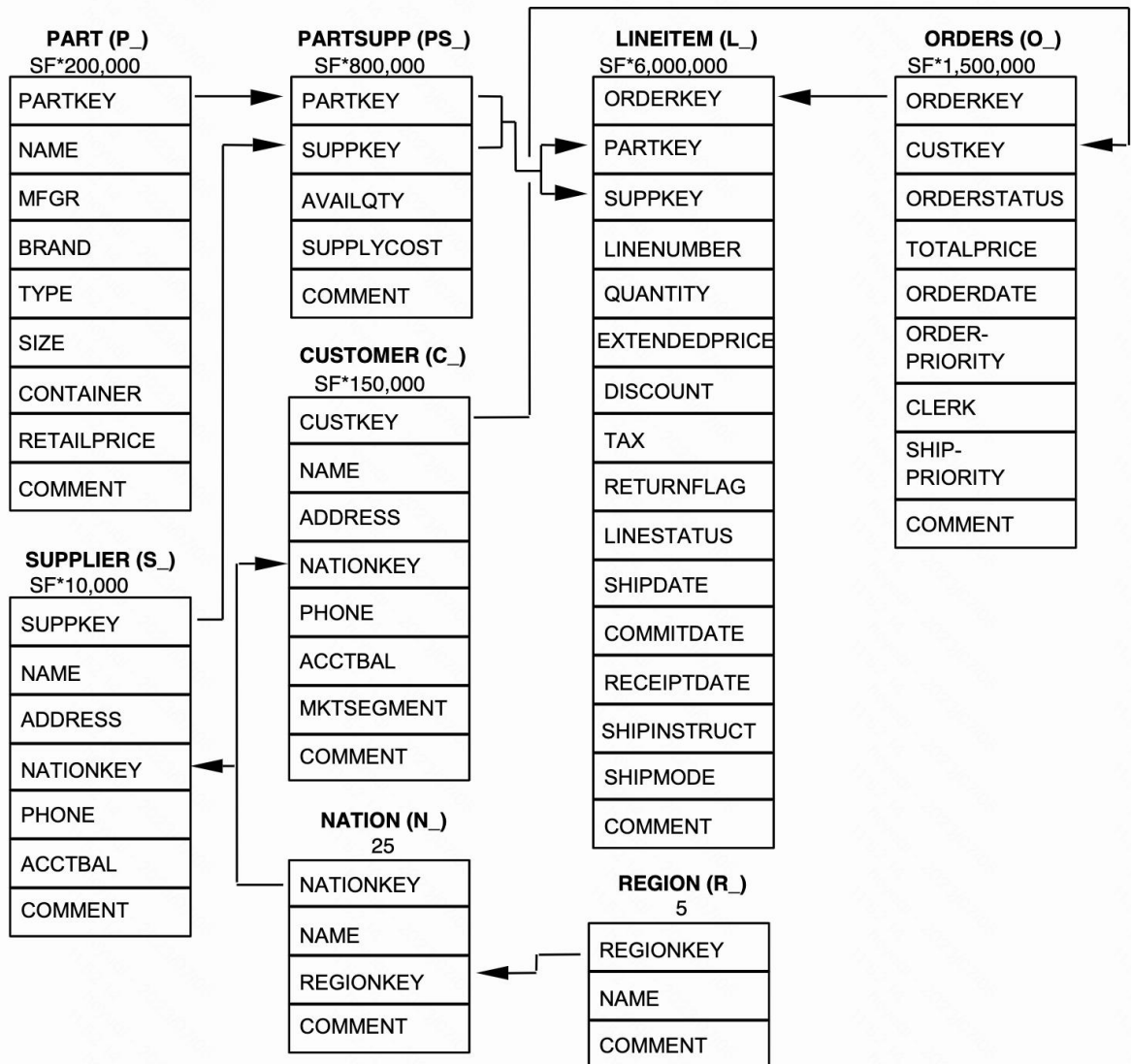


Figure 2: The TPC-H Schema



**PART Table Layout**

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
P_PARTKEY	identifier	SF*200,000 are populated
P_NAME	variable text, size 55	
P_MFGR	fixed text, size 25	

P_BRAND	fixed text, size 10	
P_TYPE	variable text, size 25	
P_SIZE	integer	
P_CONTAINER	fixed text, size 10	
P_RETAILPRICE	decimal	
P_COMMENT	variable text, size 23	

Primary Key: P\_PARTKEY

**SUPPLIER Table Layout**

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
S_SUPPKEY	identifier	SF*10,000 are populated
S_NAME	fixed text, size 25	
S_ADDRESS	variable text, size 40	
S_NATIONKEY	Identifier	Foreign Key to N_NATIONKEY
S_PHONE	fixed text, size 15	
S_ACCTBAL	decimal	
S_COMMENT	variable text, size 101	

Primary Key: S\_SUPPKEY

**PARTSUPP Table Layout**

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
PS_PARTKEY	Identifier	Foreign Key to P_PARTKEY
PS_SUPPKEY	Identifier	Foreign Key to S_SUPPKEY
PS_AVAILQTY	integer	
PS_SUPPLYCOST	Decimal	
PS_COMMENT	variable text, size 199	

Primary Key: PS\_PARTKEY, PS\_SUPPKEY

**CUSTOMER Table Layout**

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
C_CUSTKEY	Identifier	SF*150,000 are populated

C_NAME	variable text, size 25	
C_ADDRESS	variable text, size 40	
C_NATIONKEY	Identifier	Foreign Key to N_NATIONKEY
C_PHONE	fixed text, size 15	
C_ACCTBAL	Decimal	
C_MKTSEGMENT	fixed text, size 10	
C_COMMENT	variable text, size 117	
Primary Key: C_CUSTKEY		

#### ORDERS Table Layout

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
O_ORDERKEY	Identifier	SF*1,500,000 are sparsely populated
O_CUSTKEY	Identifier	Foreign Key to C_CUSTKEY
O_ORDERSTATUS	fixed text, size 1	
O_TOTALPRICE	Decimal	
O_ORDERDATE	Date	
O_ORDERPRIORITY	fixed text, size 15	
O_CLERK	fixed text, size 15	
O_SHIPPRIORITY	Integer	
O_COMMENT	variable text, size 79	
Primary Key: O_ORDERKEY		

**Comment:** Orders are not present for all customers. In fact, one-third of the customers do not have any order in the database. The orders are assigned at random to two-thirds of the customers (see Clause 4: ). The purpose of this is to exercise the capabilities of the DBMS to handle "dead data" when joining two or more tables.

#### LINEITEM Table Layout

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
L_ORDERKEY	identifier	Foreign Key to O_ORDERKEY
L_PARTKEY	identifier	Foreign key to P_PARTKEY, first part of the compound Foreign Key to (PS_PARTKEY, PS_SUPPKEY) with L_SUPPKEY
L_SUPPKEY	Identifier	Foreign key to S_SUPPKEY, second part of the compound Foreign Key to (PS_PARTKEY,

PS\_SUPPKEY) with L\_PARTKEY

L_LINENUMBER	integer
L_QUANTITY	decimal
L_EXTENDEDPRICE	decimal
L_DISCOUNT	decimal
L_TAX	decimal
L_RETURNFLAG	fixed text, size 1
L_LINESTATUS	fixed text, size 1
L_SHIPDATE	date
L_COMMITDATE	date
L_RECEIPTDATE	date
L_SHIPINSTRUCT	fixed text, size 25
L_SHIPMODE	fixed text, size 10
L_COMMENT	variable text size 44
Primary Key: L_ORDERKEY, L_LINENUMBER	

#### **NATION Table Layout**

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
N_NATIONKEY	identifier	25 nations are populated
N_NAME	fixed text, size 25	
N_REGIONKEY	identifier	Foreign Key to R_REGIONKEY
N_COMMENT	variable text, size 152	
Primary Key: N_NATIONKEY		

#### **REGION Table Layout**

<u>Column Name</u>	<u>Datatype Requirements</u>	<u>Comment</u>
R_REGIONKEY	identifier	5 regions are populated
R_NAME	fixed text, size 25	
R_COMMENT	variable text, size 152	
Primary Key: R_REGIONKEY		