

Lab 1

In order to complete the lab you have to perform the following tasks:

- ```

• region (
 - r_regionkey decimal(2,0) not null,
 - r_name char(25) not null,
 - r_comment varchar(152)
)

• nation (
 - n_nationkey decimal(3,0) not null,
 - n_name char(25) not null,
 - n_regionkey decimal(2,0) not null,
 - n_comment varchar(152)
)

• part (
 - p_partkey decimal(10,0) not null,
 - p_name varchar(55) not null,
 - p_mfgr char(25) not null,
 - p_brand char(10) not null,
 - p_type varchar(25) not null,
 - p_size decimal(2,0) not null,
 - p_container char(10) not null,
 - p_retailprice decimal(6,2) not null,
 - p_comment varchar(23) not null
)

• supplier (
 - s_suppkey decimal(8,0) not null,
 - s_name char(25) not null,
 - s_address varchar(40) not null,
 - s_nationkey decimal(3,0) not null,
 - s_phone char(15) not null,
 - s_acctbal decimal(7,2) not null,
 - s_comment varchar(101) not null
)

• partsupp (

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- ps\_partkey decimal(10,0) not null,
- ps\_supplekey decimal(8,0) not null,
- ps\_availqty decimal(5,0) not null,
- ps\_supplycost decimal(6,2) not null,
- ps\_comment varchar(199) not null

)

- **customer** (
  - c\_custkey decimal(9,0) not null,
  - c\_name varchar(25) not null,
  - c\_address varchar(40) not null,
  - c\_nationkey decimal(3,0) not null,
  - c\_phone char(15) not null,
  - c\_acctbal decimal(7,2) not null,
  - c\_mktsegment char(10) not null,
  - c\_comment varchar(117) not null
 )
- **orders** (
  - o\_orderkey decimal(12,0) not null,
  - o\_custkey decimal(9,0) not null,
  - o\_orderstatus char(1) not null,
  - o\_totalprice decimal(8,2) not null,
  - o\_orderdate date not null,
  - o\_orderpriority char(15) not null,
  - o\_clerk char(15) not null,
  - o\_shippriority decimal(1,0) not null,
  - o\_comment varchar(79) not null
 )
- **lineitem** (
  - l\_orderkey decimal(12,0) not null,
  - l\_partkey decimal(10,0) not null,
  - l\_supplekey decimal(8,0) not null,
  - l\_linenumder decimal(1,0) not null,
  - l\_quantity decimal(2,0) not null,
  - l\_extendedprice decimal(8,2) not null,
  - l\_discount decimal(3,2) not null,
  - l\_tax decimal(3,2) not null,
  - l\_returnflag char(1) not null,
  - l\_linestatus char(1) not null,
  - l\_shipdate date not null,
  - l\_commitdate date not null,
  - l\_receiptdate date not null,
  - l\_shipinstruct char(25) not null,
  - l\_shipmode char(10) not null,

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 - l_comment varchar(44) not null
)
```

3. You can check the correctness of your code by executing the command `./test.sh` in the terminal. You have to be in the lab folder. The expected output is available in `result.res`.
4. You have to submit the modified file `create-schema-tpch.sql` in CatCourses. This is the only file you have to upload.
5. The score for the lab is assigned based on passing the test case.