```sql
use role developer;

use database DEBADATTA_MOHANTY_DB;


use schema training_wh_schema;


ALTER SESSION SET query_tag=
'{
"Date":"1-Jun-2021"
"Developer" : "Debadatta"
}';


create or replace TABLE CUSTOMER(
    C_CUSTKEY NUMBER(38,0),
    C_NAME VARCHAR(25),
    C_ADDRESS VARCHAR(40),
    C_NATIONKEY NUMBER(38,0),
    C_PHONE VARCHAR(15),
    C_ACCTBAL NUMBER(12,2),
    C_MKTSEGMENT VARCHAR(10),
    C_COMMENT VARCHAR(117)
);


--select * from LINEITEM limit 10;
create or replace TABLE LINEITEM (
        L_ORDERKEY NUMBER(38,0),
        L_PARTKEY NUMBER(38,0),
        L_SUPPKEY NUMBER(38,0),
        L_LINENUMBER NUMBER(38,0),
        L_QUANTITY NUMBER(12,2),
```

```sql
        L_EXTENDEDPRICE NUMBER(12,2),

        L_DISCOUNT NUMBER(12,2),

    L_DISCOUNTED_PRICE NUMBER(12,2) AS (L_EXTENDEDPRICE * (1-L_DISCOUNT)),

        L_TAX NUMBER(12,2),

        L_RETURNFLAG VARCHAR(1),

        L_LINESTATUS VARCHAR(1),

        L_SHIPDATE DATE,

        L_COMMITDATE DATE,

        L_RECEIPTDATE DATE,

        L_SHIPINSTRUCT VARCHAR(25),

        L_SHIPMODE VARCHAR(10),

        L_COMMENT VARCHAR(44)
);


create or replace TABLE NATION (

        N_NATIONKEY NUMBER(38,0),

        N_NAME VARCHAR(25),

        N_REGIONKEY NUMBER(38,0),

        N_COMMENT VARCHAR(152)
);


create or replace TABLE ORDERS (

        O_ORDERKEY NUMBER(38,0),

        O_CUSTKEY NUMBER(38,0),

        O_ORDERSTATUS VARCHAR(1),

        O_TOTALPRICE NUMBER(12,2),

        O_ORDERDATE DATE,

        O_ORDERPRIORITY VARCHAR(15),

        O_CLERK VARCHAR(15),
```

```sql
            O_SHIPPRIORITY NUMBER(38,0),

            O_COMMENT VARCHAR(79)

);


create or replace TABLE PART (

            P_PARTKEY NUMBER(38,0),

            P_NAME VARCHAR(55),

            P_MFGR VARCHAR(25),

            P_BRAND VARCHAR(10),

            P_TYPE VARCHAR(25),

            P_SIZE NUMBER(38,0),

            P_CONTAINER VARCHAR(10),

            P_RETAILPRICE NUMBER(12,2),

            P_COMMENT VARCHAR(23)

);


create or replace TABLE PARTSUPP (

            PS_PARTKEY NUMBER(38,0),

            PS_SUPPKEY NUMBER(38,0),

            PS_AVAILQTY NUMBER(38,0),

            PS_SUPPLYCOST NUMBER(12,2),

            PS_COMMENT VARCHAR(199)

);


create or replace TABLE REGION (

            R_REGIONKEY NUMBER(38,0),

            R_NAME VARCHAR(25),

            R_COMMENT VARCHAR(152)

);
```

```
create or replace TABLE SUPPLIER (

        S_SUPPKEY NUMBER(38,0),

        S_NAME VARCHAR(25),

        S_ADDRESS VARCHAR(40),

        S_NATIONKEY NUMBER(38,0),

        S_PHONE VARCHAR(15),

        S_ACCTBAL NUMBER(12,2),

        S_COMMENT VARCHAR(101)

);
```

```
select table_name, row_count,bytes/1024/1024 size_inMB from information_schema.tables where table_schema = 'TRAINING_WH_SCHEMA';
```

```
desc table customer;
```

```
show tables in schema;
```

```
select * from information_schema.table_constraints;
```

-------********************* create relationship ******************************---------

```
ALTER TABLE customer ALTER COLUMN c_custkey SET NOT NULL;

ALTER TABLE customer ADD CONSTRAINT cus_custkey_PK PRIMARY KEY  (c_custkey);


ALTER TABLE ORDERS ALTER COLUMN O_ORDERKEY SET NOT NULL;

ALTER TABLE ORDERS ADD CONSTRAINT ord_ORDERKEY_PK PRIMARY KEY  (O_ORDERKEY);


ALTER TABLE PART ALTER COLUMN P_PARTKEY SET NOT NULL;
```

ALTER TABLE PART ADD CONSTRAINT PART_PARTKEY_PK PRIMARY KEY (P_PARTKEY);

ALTER TABLE SUPPLIER ALTER COLUMN S_SUPPKEY SET NOT NULL;

ALTER TABLE SUPPLIER ADD CONSTRAINT SUP_SUPPKEYY_PK PRIMARY KEY (S_SUPPKEY);

ALTER TABLE REGION ALTER COLUMN R_REGIONKEY SET NOT NULL;

ALTER TABLE REGION ADD CONSTRAINT REG_REGIONKEY_PK PRIMARY KEY (R_REGIONKEY);

ALTER TABLE NATION ALTER COLUMN N_NATIONKEY SET NOT NULL;

ALTER TABLE NATION ADD CONSTRAINT NAT_NATIONKEY_PK PRIMARY KEY (N_NATIONKEY);

ALTER TABLE PARTSUPP ALTER COLUMN PS_PARTKEY SET NOT NULL;

ALTER TABLE PARTSUPP ALTER COLUMN PS_SUPPKEY SET NOT NULL;

ALTER TABLE PARTSUPP ADD CONSTRAINT PS_PARTSUPP_PK PRIMARY KEY (PS_PARTKEY,PS_SUPPKEY) enforced;

----- 1.8 foreign key constraints

ALTER TABLE NATION ALTER COLUMN N_REGIONKEY SET NOT NULL;

ALTER TABLE NATION ADD CONSTRAINT NAT_REGKEY_FK FOREIGN KEY (N_REGIONKEY) references REGION (R_REGIONKEY);

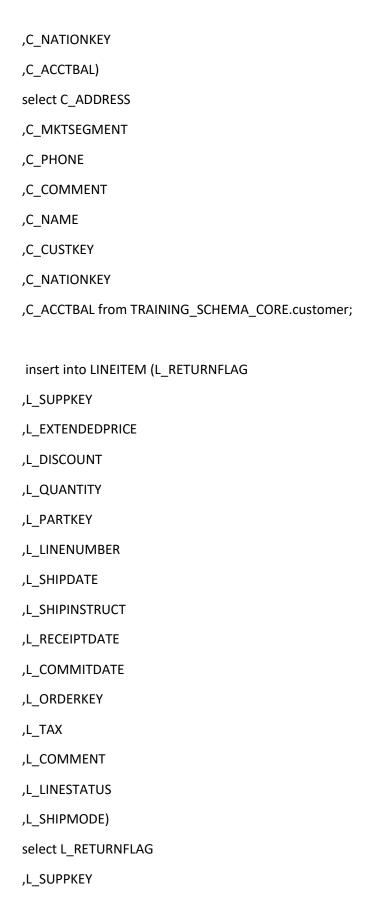ALTER TABLE SUPPLIER ALTER COLUMN S_NATIONKEY SET NOT NULL;

ALTER TABLE SUPPLIER ADD CONSTRAINT SUP_NATKEY_FK FOREIGN KEY (S_NATIONKEY) references NATION (N_NATIONKEY);

ALTER TABLE customer ALTER COLUMN C_NATIONKEY SET NOT NULL;

ALTER TABLE customer ADD CONSTRAINT CUS_NATKEY_FK FOREIGN KEY (C_NATIONKEY) references NATION (N_NATIONKEY);

```sql
ALTER TABLE PARTSUPP ALTER COLUMN PS_SUPPKEY SET NOT NULL;

ALTER TABLE PARTSUPP ALTER COLUMN PS_PARTKEY SET NOT NULL;

ALTER TABLE PARTSUPP ADD CONSTRAINT PS_SUPPKEY_FK FOREIGN KEY  (PS_SUPPKEY) references
SUPPLIER (S_SUPPKEY);

ALTER TABLE PARTSUPP ADD CONSTRAINT PS_PARTKEY_FK FOREIGN KEY  (PS_PARTKEY) references
PART (P_PARTKEY);


ALTER TABLE LINEITEM ALTER COLUMN L_SUPPKEY SET NOT NULL;

ALTER TABLE LINEITEM ALTER COLUMN L_PARTKEY SET NOT NULL;

ALTER TABLE LINEITEM ADD CONSTRAINT LI_PARTSUPPKEY_FK FOREIGN KEY  (L_PARTKEY,L_SUPPKEY)
references PARTSUPP (PS_PARTKEY,PS_SUPPKEY);




ALTER TABLE LINEITEM ALTER COLUMN L_ORDERKEY SET NOT NULL;

ALTER TABLE LINEITEM ADD CONSTRAINT LI_ORDERKEY_FK FOREIGN KEY  (L_ORDERKEY) references
ORDERS (O_ORDERKEY);


ALTER TABLE ORDERS ALTER COLUMN O_CUSTKEY SET NOT NULL;

ALTER TABLE ORDERS ADD CONSTRAINT ORD_CUSKEY_FK FOREIGN KEY  (O_CUSTKEY) references
customer (c_custkey);


select * from information_schema.table_constraints;


/*------Load Data --------------------*/
insert into customer (C_ADDRESS

,C_MKTSEGMENT

,C_PHONE

,C_COMMENT

,C_NAME

,C_CUSTKEY
```

```sql
,C_NATIONKEY

,C_ACCTBAL)

select C_ADDRESS

,C_MKTSEGMENT

,C_PHONE

,C_COMMENT

,C_NAME

,C_CUSTKEY

,C_NATIONKEY

,C_ACCTBAL from TRAINING_SCHEMA_CORE.customer;


 insert into LINEITEM (L_RETURNFLAG

,L_SUPPKEY

,L_EXTENDEDPRICE

,L_DISCOUNT

,L_QUANTITY

,L_PARTKEY

,L_LINENUMBER

,L_SHIPDATE

,L_SHIPINSTRUCT

,L_RECEIPTDATE

,L_COMMITDATE

,L_ORDERKEY

,L_TAX

,L_COMMENT

,L_LINESTATUS

,L_SHIPMODE)

select L_RETURNFLAG

,L_SUPPKEY
```

```sql
,L_EXTENDEDPRICE

,L_DISCOUNT

,L_QUANTITY

,L_PARTKEY

,L_LINENUMBER

,L_SHIPDATE

,L_SHIPINSTRUCT

,L_RECEIPTDATE

,L_COMMITDATE

,L_ORDERKEY

,L_TAX

,L_COMMENT

,L_LINESTATUS

,L_SHIPMODE from

TRAINING_SCHEMA_CORE.LINEITEM;


commit;


 insert into NATION

 (

N_NATIONKEY

,N_COMMENT

,N_REGIONKEY

,N_NAME)

select N_NATIONKEY

,N_COMMENT

,N_REGIONKEY

,N_NAME from

TRAINING_SCHEMA_CORE.NATION;
```

```sql
 insert into ORDERS (

O_ORDERDATE

,O_ORDERPRIORITY

,O_COMMENT

,O_ORDERKEY

,O_CLERK

,O_CUSTKEY

,O_SHIPPRIORITY

,O_TOTALPRICE

,O_ORDERSTATUS)

select

O_ORDERDATE

,O_ORDERPRIORITY

,O_COMMENT

,O_ORDERKEY

,O_CLERK

,O_CUSTKEY

,O_SHIPPRIORITY

,O_TOTALPRICE

,O_ORDERSTATUS

from

TRAINING_SCHEMA_CORE.ORDERS;



 insert into PART

(P_RETAILPRICE

,P_COMMENT

,P_MFGR
```

```sql
            ,P_SIZE

            ,P_CONTAINER

            ,P_TYPE

            ,P_NAME

            ,P_BRAND

            ,P_PARTKEY )

        select

        P_RETAILPRICE

            ,P_COMMENT

            ,P_MFGR

            ,P_SIZE

            ,P_CONTAINER

            ,P_TYPE

            ,P_NAME

            ,P_BRAND

            ,P_PARTKEY from

        TRAINING_SCHEMA_CORE.PART;


        insert into PARTSUPP

        (

        PS_PARTKEY

            ,PS_SUPPKEY

            ,PS_COMMENT

            ,PS_SUPPLYCOST

            ,PS_AVAILQTY)

        select

        PS_PARTKEY

            ,PS_SUPPKEY

            ,PS_COMMENT
```

```sql
,PS_SUPPLYCOST

,PS_AVAILQTY from

TRAINING_SCHEMA_CORE.PARTSUPP;


insert into REGION

(

R_NAME

,R_COMMENT

,R_REGIONKEY

)

select

R_NAME

,R_COMMENT

,R_REGIONKEY

from

TRAINING_SCHEMA_CORE.REGION;


insert into SUPPLIER

(S_NAME

,S_ACCTBAL

,S_PHONE

,S_ADDRESS

,S_COMMENT

,S_SUPPKEY

,S_NATIONKEY

)

select

S_NAME

,S_ACCTBAL
```

```
    ,S_PHONE

    ,S_ADDRESS

    ,S_COMMENT

    ,S_SUPPKEY

    ,S_NATIONKEY

    from

    TRAINING_SCHEMA_CORE.SUPPLIER;


    commit;


    select * from customer;



    select current_region();


    select current_account();


    select current_user();


    select current_client();



    commit;
```