

# TPC-DS Benchmark How To Guide

Commands:

Create Oracle user TPCDS

```
SQL> CREATE USER "TPCDS" PROFILE "DEFAULT" IDENTIFIED BY "*****" DEFAULT  
TABLESPACE "USERS" TEMPORARY TABLESPACE "TEMP" QUOTA UNLIMITED ON "USERS"  
ACCOUNT UNLOCK GRANT CREATE TABLE TO "TPCDS" GRANT "CONNECT" TO "TPCDS";
```

Get DSGen and unpack

- mkdir /tmp/dsgen
- cd /tmp/dsgen
- wget [https://www.inf.unibz.it/wiki/\\_media/public/dsgen\\_v1.1.0.zip](https://www.inf.unibz.it/wiki/_media/public/dsgen_v1.1.0.zip)
- unzip dsgen\_v1.1.0.zip

Compile/build binaries

- cp tools/Makefile.suite tools/Makefile
- cat tools/Makefile | grep ^OS

| \* Result should be: OS | = | LINUX |

- cd tools
- make

Generate load data

- mkdir /tmp/tpc
- ./dsdgen -scale 1 -dir /tmp/tpc

Import tables into Oracle

- su - oracle
- cd /tmp/dsgen/tools
- sqlplus tpcds/\* @tpcds.sql
- sqlplus tpcds/\* @tpcds\_source.sql

Load data

- su - oracle
- mkdir tpc-ds
- cd tpc-ds

Prepare control files:

- vi call\_center.ctl

[call\\_center.ctl](#)

```
load data infile '/tmp/tpc/call_center.dat' into table call_center fields terminated by '|' (
  CC_CALL_CENTER_SK, CC_CALL_CENTER_ID, CC_REC_START_DATE date "YYYY-MM-DD", CC_
  REC_END_DATE date "YYYY-MM-DD", CC_CLOSED_DATE_SK, CC_OPEN_DATE_SK, CC_NAME, CC_
  CLASS, CC_EMPLOYEES, CC_SQ_FT, CC_HOURS, CC_MANAGER, CC_MKT_ID, CC_MKT_CLASS, CC
  _MKT_DESC, CC_MARKET_MANAGER, CC_DIVISION, CC_DIVISION_NAME, CC_COMPANY,
  CC_COMPANY_NAME, CC_STREET_NUMBER, CC_STREET_NAME, CC_STREET_TYPE,
  CC_SUITE_NUMBER, CC_CITY, CC_COUNTY, CC_STATE, CC_ZIP, CC_COUNTRY, CC_GMT_OFFSET,
  CC_TAX_PERCENTAGE )
```

- 1.
2. load data
3. infile '/tmp/tpc/call\_center.dat'
4. into table call\_center
5. fields terminated by '|'
6. ( CC\_CALL\_CENTER\_SK, CC\_CALL\_CENTER\_ID, CC\_REC\_START\_DATE date "YYYY-MM-DD", CC\_
7. REC\_END\_DATE date "YYYY-MM-DD", CC\_CLOSED\_DATE\_SK, CC\_OPEN\_DATE\_SK,
8. CC\_NAME, CC\_
9. CLASS, CC\_EMPLOYEES, CC\_SQ\_FT, CC\_HOURS, CC\_MANAGER, CC\_MKT\_ID,
10. CC\_MKT\_CLASS, CC
11. \_MKT\_DESC, CC\_MARKET\_MANAGER, CC\_DIVISION, CC\_DIVISION\_NAME, CC\_COMPANY,
12. CC\_COMPANY
13. ANY\_NAME, CC\_STREET\_NUMBER, CC\_STREET\_NAME, CC\_STREET\_TYPE,
14. CC\_SUITE\_NUMBER, CC\_
15. CITY, CC\_COUNTY, CC\_STATE, CC\_ZIP, CC\_COUNTRY, CC\_GMT\_OFFSET,
16. CC\_TAX\_PERCENTAGE
17. )
18. )

- vi catalog\_page.ctf

### [catalog\\_page.ctf](#)

```
load data infile '/tmp/tpc/catalog_page.dat' into table catalog_page fields terminated by '|' (
  CP_CATALOG_PAGE_SK, CP_CATALOG_PAGE_ID, CP_START_DATE_SK, CP_END_DATE_SK, CP_D
  EPARTMENT, CP_CATALOG_NUMBER, CP_CATALOG_PAGE_NUMBER, CP_DESCRIPTION, CP_TYPE )
```

- 1.
2. load data
3. infile '/tmp/tpc/catalog\_page.dat'
4. into table catalog\_page
5. fields terminated by '|'
6. ( CP\_CATALOG\_PAGE\_SK, CP\_CATALOG\_PAGE\_ID, CP\_START\_DATE\_SK,
7. CP\_END\_DATE\_SK, CP\_D
8. EPARTMENT, CP\_CATALOG\_NUMBER, CP\_CATALOG\_PAGE\_NUMBER, CP\_DESCRIPTION,
9. CP\_TYPE )
10. )

- vi catalog\_returns.ctf

### [catalog\\_page.ctf](#)

```
load data infile '/tmp/tpc/catalog_returns.dat' into table catalog_returns fields terminated by '|' (
CR_RETURNED_DATE_SK, CR_RETURNED_TIME_SK, CR_ITEM_SK, CR_REFUNDED_CUSTOMER_SK,
CR_REFUNDED_CDEMO_SK, CR_REFUNDED_HDEMO_SK, CR_REFUNDED_ADDR_SK,
CR_RETURNING_CUSTOMER_SK, CR_RETURNING_CDEMO_SK, CR_RETURNING_HDEMO_SK,
CR_RETURNING_ADDR_SK, CR_CALL_CENTER_SK, CR_CATALOG_PAGE_SK, CR_SHIP_MODE_SK,
CR_WAREHOUSE_SK, CR_REASON_SK, CR_ORDER_NUMBER, CR_RETURN_QUANTITY,
CR_RETURN_AMOUNT, CR_RETURN_TAX, CR_RETURN_AMT_INC_TAX, CR_FEE,
CR_RETURN_SHIP_COST, CR_REFUNDED_CASH, CR_REVERSED_CHARGE, CR_STORE_CREDIT,
CR_NET_LOSS )
```

- 1.
2. load data
3. infile '/tmp/tpc/catalog\_returns.dat'
4. into table catalog\_returns
5. fields terminated by '|'
6. ( CR\_RETURNED\_DATE\_SK, CR\_RETURNED\_TIME\_SK, CR\_ITEM\_SK,
CR\_REFUNDED\_CUSTOMER\_SK, CR\_REFUNDED\_CDEMO\_SK, CR\_REFUNDED\_HDEMO\_SK,
CR\_REFUNDED\_ADDR\_SK, CR\_RETURNING\_CUSTOMER\_SK, CR\_RETURNING\_CDEMO\_SK,
CR\_RETURNING\_HDEMO\_SK, CR\_RETURNING\_ADDR\_SK, CR\_CALL\_CENTER\_SK,
CR\_CATALOG\_PAGE\_SK, CR\_SHIP\_MODE\_SK, CR\_WAREHOUSE\_SK, CR\_REASON\_SK,
CR\_ORDER\_NUMBER, CR\_RETURN\_QUANTITY, CR\_RETURN\_AMOUNT, CR\_RETURN\_TAX,
CR\_RETURN\_AMT\_INC\_TAX, CR\_FEE, CR\_RETURN\_SHIP\_COST, CR\_REFUNDED\_CASH,
CR\_REVERSED\_CHARGE, CR\_STORE\_CREDIT, CR\_NET\_LOSS )
- 7.

- vi catalog\_sales.ctf

### catalog\_sales.ctf

```
load data infile '/tmp/tpc/catalog_sales.dat' into table catalog_sales fields terminated by '|' (
CS_SOLD_DATE_SK, CS_SOLD_TIME_SK, CS_SHIP_DATE_SK, CS_BILL_CUSTOMER_SK,
CS_BILL_CDEMO_SK, CS_BILL_HDEMO_SK, CS_BILL_ADDR_SK, CS_SHIP_CUSTOMER_SK,
CS_SHIP_CDEMO_SK, CS_SHIP_HDEMO_SK, CS_SHIP_ADDR_SK, CS_CALL_CENTER_SK,
CS_CATALOG_PAGE_SK, CS_SHIP_MODE_SK, CS_WAREHOUSE_SK, CS_ITEM_SK, CS_PROMO_SK,
CS_ORDER_NUMBER, CS_QUANTITY, CS_WHOLESALE_COST, CS_LIST_PRICE, CS_SALES_PRICE,
CS_EXT_DISCOUNT_AMT, CS_EXT_SALES_PRICE, CS_EXT_WHOLESALE_COST,
CS_EXT_LIST_PRICE, CS_EXT_TAX, CS_COUPON_AMT, CS_EXT_SHIP_COST, CS_NET_PAID,
CS_NET_PAID_INC_TAX, CS_NET_PAID_INC_SHIP, CS_NET_PAID_INC_SHIP_TAX, CS_NET_PROFIT )
```

- 1.
2. load data
3. infile '/tmp/tpc/catalog\_sales.dat'
4. into table catalog\_sales
5. fields terminated by '|'
6. ( CS\_SOLD\_DATE\_SK, CS\_SOLD\_TIME\_SK, CS\_SHIP\_DATE\_SK,
CS\_BILL\_CUSTOMER\_SK, CS\_BILL\_CDEMO\_SK, CS\_BILL\_HDEMO\_SK,
CS\_BILL\_ADDR\_SK, CS\_SHIP\_CUSTOMER\_SK, CS\_SHIP\_CDEMO\_SK,
CS\_SHIP\_HDEMO\_SK, CS\_SHIP\_ADDR\_SK, CS\_CALL\_CENTER\_SK,
CS\_CATALOG\_PAGE\_SK, CS\_SHIP\_MODE\_SK, CS\_WAREHOUSE\_SK, CS\_ITEM\_SK,
CS\_PROMO\_SK, CS\_ORDER\_NUMBER, CS\_QUANTITY, CS\_WHOLESALE\_COST,
CS\_LIST\_PRICE, CS\_SALES\_PRICE, CS\_EXT\_DISCOUNT\_AMT, CS\_EXT\_SALES\_PRICE,
CS\_EXT\_WHOLESALE\_COST, CS\_EXT\_LIST\_PRICE, CS\_EXT\_TAX, CS\_COUPON\_AMT,
CS\_EXT\_SHIP\_COST, CS\_NET\_PAID, CS\_NET\_PAID\_INC\_TAX,

```
CS_NET_PAID_INC_SHIP, CS_NET_PAID_INC_SHIP_TAX, CS_NET_PROFIT )
```

7.

- vi customer\_address.ctl

#### [customer\\_address.ctl](#)

```
load data infile '/tmp/tpc/customer_address.dat' into table customer_address fields terminated
by '|' (
CA_ADDRESS_SK,CA_ADDRESS_ID,CA_STREET_NUMBER,CA_STREET_NAME,CA_STREET_TYPE,CA
_SUITE_NUMBER,CA_CITY,CA_COUNTY,CA_STATE,CA_ZIP,CA_COUNTRY,CA_GMT_OFFSET,CA_LOC
ATION_TYPE )
```

1.

2. load data

3. infile '/tmp/tpc/customer\_address.dat'

4. into table customer\_address

5. fields terminated by '|'

6. (

```
CA_ADDRESS_SK,CA_ADDRESS_ID,CA_STREET_NUMBER,CA_STREET_NAME,CA_STREET_TY
PE,CA_SUITE_NUMBER,CA_CITY,CA_COUNTY,CA_STATE,CA_ZIP,CA_COUNTRY,CA_GMT_0
FFSET,CA_LOCATION_TYPE )
```

7.

- vi customer.ctl

#### [customer.ctl](#)

```
load data infile '/tmp/tpc/customer.dat' into table customer fields terminated by '|' (
C_CUSTOMER_SK, C_CUSTOMER_ID, C_CURRENT_CDEMO_SK, C_CURRENT_HDEMO_SK,
C_CURRENT_ADDR_SK, C_FIRST_SHIPTO_DATE_SK, C_FIRST_SALES_DATE_SK, C_SALUTATION,
C_FIRST_NAME, C_LAST_NAME, C_PREFERRED_CUST_FLAG, C_BIRTH_DAY, C_BIRTH_MONTH,
C_BIRTH_YEAR, C_BIRTH_COUNTRY, C_LOGIN, C_EMAIL_ADDRESS, C_LAST_REVIEW_DATE )
```

1.

2. load data

3. infile '/tmp/tpc/customer.dat'

4. into table customer

5. fields terminated by '|'

6. ( C\_CUSTOMER\_SK, C\_CUSTOMER\_ID, C\_CURRENT\_CDEMO\_SK, C\_CURRENT\_HDEMO\_SK,  
C\_CURRENT\_ADDR\_SK, C\_FIRST\_SHIPTO\_DATE\_SK, C\_FIRST\_SALES\_DATE\_SK,  
C\_SALUTATION, C\_FIRST\_NAME, C\_LAST\_NAME, C\_PREFERRED\_CUST\_FLAG,  
C\_BIRTH\_DAY, C\_BIRTH\_MONTH, C\_BIRTH\_YEAR, C\_BIRTH\_COUNTRY, C\_LOGIN,  
C\_EMAIL\_ADDRESS, C\_LAST\_REVIEW\_DATE )

7.

- vi customer\_demographics.ctl

#### [customer\\_demographics.ctl](#)

```
load data infile '/tmp/tpc/customer_demographics.dat' into table customer_demographics fields
terminated by '|' (
CD_DEMO_SK,CD_GENDER,CD_MARITAL_STATUS,CD_EDUCATION_STATUS,CD_PURCHASE_ESTIMATE,CD_CREDIT_RATING,CD_DEP_COUNT,CD_DEP_EMPLOYED_COUNT,CD_DEP_COLLEGE_COUNT
)
```

- 1.
2. load data
3. infile '/tmp/tpc/customer\_demographics.dat'
4. into table customer\_demographics
5. fields terminated by '|'
6. (
 CD\_DEMO\_SK,CD\_GENDER,CD\_MARITAL\_STATUS,CD\_EDUCATION\_STATUS,CD\_PURCHASE\_ESTIMATE,CD\_CREDIT\_RATING,CD\_DEP\_COUNT,CD\_DEP\_EMPLOYED\_COUNT,CD\_DEP\_COLLEGE\_COUNT )
- 7.

- vi date\_dim.ctl

#### [date\\_dim.ctl](#)

```
load data infile '/tmp/tpc/date_dim.dat' into table date_dim fields terminated by '|' (
D_DATE_SK,D_DATE_ID,D_DATE date "YYYY-MM-DD",D_MONTH_SEQ,D_WEEK_SEQ,D_QUARTER_SEQ,D_YEAR,D_DOW,D_MOY,D_DOM,D_QOY,D_FY_YEAR,D_FY_QUARTER_SEQ,D_FY_WEEK_SEQ,D_DAY_NAME,D_QUARTER_NAME,D_HOLIDAY,D_WEEKEND,D_FOLLOWING_HOLIDAY,D_FIRST_DOM,D_LAST_DOM,D_SAME_DAY_LY,D_SAME_DAY_LQ,D_CURRENT_DAY,D_CURRENT_WEEK,D_CURRENT_MONTH,D_CURRENT_QUARTER,D_CURRENT_YEAR )
```

- 1.
2. load data
3. infile '/tmp/tpc/date\_dim.dat'
4. into table date\_dim
5. fields terminated by '|'
6. ( D\_DATE\_SK,D\_DATE\_ID,D\_DATE date "YYYY-MM-DD",D\_MONTH\_SEQ,D\_WEEK\_SEQ,D\_QUARTER\_SEQ,D\_YEAR,D\_DOW,D\_MOY,D\_DOM,D\_QOY,D\_FY\_YEAR,D\_FY\_QUARTER\_SEQ,D\_FY\_WEEK\_SEQ,D\_DAY\_NAME,D\_QUARTER\_NAME,D\_HOLIDAY,D\_WEEKEND,D\_FOLLOWING\_HOLIDAY,D\_FIRST\_DOM,D\_LAST\_DOM,D\_SAME\_DAY\_LY,D\_SAME\_DAY\_LQ,D\_CURRENT\_DAY,D\_CURRENT\_WEEK,D\_CURRENT\_MONTH,D\_CURRENT\_QUARTER,D\_CURRENT\_YEAR )
- 7.

- vi dbgen\_version.ctl

#### [dbgen\\_version.ctl](#)

```
load data infile '/tmp/tpc/dbgen_version.dat' into table dbgen_version fields terminated by '|' (
DV_VERSION, DV_CREATE_DATE, DV_CREATE_TIME, DV_CMDLINE_ARGS )
```

- 1.
2. load data
3. infile '/tmp/tpc/dbgen\_version.dat'

```
4. into table dbgen_version
5. fields terminated by '|'
6. ( DV_VERSION, DV_CREATE_DATE, DV_CREATE_TIME, DV_CMDLINE_ARGS )
7.
```

- vi household\_demographics.ctl

#### [household\\_demographics.ctl](#)

```
load data infile '/tmp/tpc/household_demographics.dat' into table household_demographics
fields terminated by '|' ( HD_DEMO_SK, HD_INCOME_BAND_SK, HD_BUY_POTENTIAL,
HD_DEP_COUNT, HD_VEHICLE_COUNT )
```

```
1.
2. load data
3. infile '/tmp/tpc/household_demographics.dat'
4. into table household_demographics
5. fields terminated by '|'
6. ( HD_DEMO_SK, HD_INCOME_BAND_SK, HD_BUY_POTENTIAL, HD_DEP_COUNT,
  HD_VEHICLE_COUNT )
7.
```

- vi income\_band.ctl

#### [income\\_band.ctl](#)

```
load data infile '/tmp/tpc/income_band.dat' into table income_band fields terminated by '|'
(IB_INCOME_BAND_SK, IB_LOWER_BOUND, IB_UPPER_BOUND )
```

```
1.
2. load data
3. infile '/tmp/tpc/income_band.dat'
4. into table income_band
5. fields terminated by '|'
6. ( IB_INCOME_BAND_SK, IB_LOWER_BOUND, IB_UPPER_BOUND )
7.
```

- vi inventory.ctl

#### [inventory.ctl](#)

```
load data infile '/tmp/tpc/inventory.dat' into table inventory fields terminated by '|' (
INV_DATE_SK, INV_ITEM_SK, INV_WAREHOUSE_SK, INV_QUANTITY_ON_HAND ) load data infile
'/tmp/tpc/item.dat' into table item fields terminated by '|' ( I_ITEM_SK, I_ITEM_ID,
I_REC_START_DATE date "YYYY-MM-DD", I_REC_END_DATE date "YYYY-MM-DD", I_ITEM_DESC,
I_CURRENT_PRICE, I_WHOLESALE_COST, I_BRAND_ID, I_BRAND, I_CLASS_ID, I_CLASS,
I_CATEGORY_ID, I_CATEGORY, I_MANUFACT_ID, I_MANUFACT, I_SIZE, I_FORMULATION, I_COLOR,
I_UNITS, I_CONTAINER, I_MANAGER_ID, I_PRODUCT_NAME )
```

```
1.
2. load data
```

```

3. infile '/tmp/tpc/inventory.dat'
4. into table inventory
5. fields terminated by '|'
6. ( INV_DATE_SK, INV_ITEM_SK, INV_WAREHOUSE_SK, INV_QUANTITY_ON_HAND )
7. load data
8. infile '/tmp/tpc/item.dat'
9. into table item
10. fields terminated by '|'
11. ( I_ITEM_SK, I_ITEM_ID, I_REC_START_DATE date "YYYY-MM-DD",
    I_REC_END_DATE date "YYYY-MM-DD", I_ITEM_DESC, I_CURRENT_PRICE,
    I_WHOLESALE_COST, I_BRAND_ID, I_BRAND, I_CLASS_ID, I_CLASS,
    I_CATEGORY_ID, I_CATEGORY, I_MANUFACT_ID, I_MANUFACT, I_SIZE,
    I_FORMULATION, I_COLOR, I_UNITS, I_CONTAINER, I_MANAGER_ID,
    I_PRODUCT_NAME )
12.

```

- vi item.ctf

### item.ctf

```

load data infile '/tmp/tpc/item.dat' into table item fields terminated by '|' ( I_ITEM_SK, I_ITEM_ID,
I_REC_START_DATE date "YYYY-MM-DD", I_REC_END_DATE date "YYYY-MM-DD", I_ITEM_DESC,
I_CURRENT_PRICE, I_WHOLESALE_COST, I_BRAND_ID, I_BRAND, I_CLASS_ID, I_CLASS,
I_CATEGORY_ID, I_CATEGORY, I_MANUFACT_ID, I_MANUFACT, I_SIZE, I_FORMULATION, I_COLOR,
I_UNITS, I_CONTAINER, I_MANAGER_ID, I_PRODUCT_NAME )

```

```

1.
2. load data
3. infile '/tmp/tpc/item.dat'
4. into table item
5. fields terminated by '|'
6. ( I_ITEM_SK, I_ITEM_ID, I_REC_START_DATE date "YYYY-MM-DD",
    I_REC_END_DATE date "YYYY-MM-DD", I_ITEM_DESC, I_CURRENT_PRICE,
    I_WHOLESALE_COST, I_BRAND_ID, I_BRAND, I_CLASS_ID, I_CLASS,
    I_CATEGORY_ID, I_CATEGORY, I_MANUFACT_ID, I_MANUFACT, I_SIZE,
    I_FORMULATION, I_COLOR, I_UNITS, I_CONTAINER, I_MANAGER_ID,
    I_PRODUCT_NAME )
7.

```

- vi promotion.ctf

### promotion.ctf

```

load data infile '/tmp/tpc/promotion.dat' into table promotion fields terminated by '|' (
P_PROMO_SK, P_PROMO_ID, P_START_DATE_SK, P_END_DATE_SK, P_ITEM_SK, P_COST,
P_RESPONSE_TARGET, P_PROMO_NAME, P_CHANNEL_DMAIL, P_CHANNEL_EMAIL,
P_CHANNEL_CATALOG, P_CHANNEL_TV, P_CHANNEL_RADIO, P_CHANNEL_PRESS,
P_CHANNEL_EVENT, P_CHANNEL_DEMO, P_CHANNEL_DETAILS, P_PURPOSE,
P_DISCOUNT_ACTIVE )

```

```

1.
2. load data

```

```
3. infile '/tmp/tpc/promotion.dat'
4. into table promotion
5. fields terminated by '|'
6. ( P_PROMO_SK, P_PROMO_ID, P_START_DATE_SK, P_END_DATE_SK, P_ITEM_SK,
    P_COST, P_RESPONSE_TARGET, P_PROMO_NAME, P_CHANNEL_DMAIL,
    P_CHANNEL_EMAIL, P_CHANNEL_CATALOG, P_CHANNEL_TV, P_CHANNEL_RADIO,
    P_CHANNEL_PRESS, P_CHANNEL_EVENT, P_CHANNEL_DEMO, P_CHANNEL_DETAILS,
    P_PURPOSE, P_DISCOUNT_ACTIVE )
7.
```

- vi reason.ctl

#### [reason.ctl](#)

```
load data infile '/tmp/tpc/reason.dat' into table reason fields terminated by '|' ( R_REASON_SK,
R_REASON_ID, R_REASON_DESC )
```

```
1.
2. load data
3. infile '/tmp/tpc/reason.dat'
4. into table reason
5. fields terminated by '|'
6. ( R_REASON_SK, R_REASON_ID, R_REASON_DESC )
7.
```

- vi ship\_mode.ctl

#### [ship\\_mode.ctl](#)

```
load data infile '/tmp/tpc/ship_mode.dat' into table ship_mode fields terminated by '|' (
SM_SHIP_MODE_SK,SM_SHIP_MODE_ID,SM_TYPE,SM_CODE,SM_CARRIER,SM_CONTRACT )
```

```
1.
2. load data
3. infile '/tmp/tpc/ship_mode.dat'
4. into table ship_mode
5. fields terminated by '|'
6. ( SM_SHIP_MODE_SK,SM_SHIP_MODE_ID,SM_TYPE,SM_CODE,SM_CARRIER,SM_CONTRACT
  )
7.
```

- vi store.ctl

#### [store.ctl](#)

```
load data infile '/tmp/tpc/store.dat' into table store fields terminated by '|' ( S_STORE_SK,
S_STORE_ID, S_REC_START_DATE date "YYYY-MM-DD", S_REC_END_DATE date "YYYY-MM-DD",
S_CLOSED_DATE_SK, S_STORE_NAME, S_NUMBER_EMPLOYEES, S_FLOOR_SPACE, S_HOURS,
S_MANAGER, S_MARKET_ID, S_GEOGRAPHY_CLASS, S_MARKET_DESC, S_MARKET_MANAGER,
S_DIVISION_ID, S_DIVISION_NAME, S_COMPANY_ID, S_COMPANY_NAME, S_STREET_NUMBER,
S_STREET_NAME, S_STREET_TYPE, S_SUITE_NUMBER, S_CITY, S_COUNTY, S_STATE, S_ZIP,
```



S\_COUNTRY, S\_GMT\_OFFSET, S\_TAX\_PERCENTAGE )

- 1.
2. load data
3. infile '/tmp/tpc/store.dat'
4. into table store
5. fields terminated by '|'
6. ( S\_STORE\_SK, S\_STORE\_ID, S\_REC\_START\_DATE date "YYYY-MM-DD",  
S\_REC\_END\_DATE date "YYYY-MM-DD", S\_CLOSED\_DATE\_SK, S\_STORE\_NAME,  
S\_NUMBER\_EMPLOYEES, S\_FLOOR\_SPACE, S\_HOURS, S\_MANAGER, S\_MARKET\_ID,  
S\_GEOGRAPHY\_CLASS, S\_MARKET\_DESC, S\_MARKET\_MANAGER, S\_DIVISION\_ID,  
S\_DIVISION\_NAME, S\_COMPANY\_ID, S\_COMPANY\_NAME, S\_STREET\_NUMBER,  
S\_STREET\_NAME, S\_STREET\_TYPE, S\_SUITE\_NUMBER, S\_CITY, S\_COUNTY, S\_STATE,  
S\_ZIP, S\_COUNTRY, S\_GMT\_OFFSET, S\_TAX\_PERCENTAGE )
- 7.

- vi store\_returns.ctl

### store\_returns.ctl

```
load data infile '/tmp/tpc/store_returns.dat' into table store_returns fields terminated by '|' (
SR_RETURNED_DATE_SK, SR_RETURN_TIME_SK, SR_ITEM_SK, SR_CUSTOMER_SK, SR_CDEMO_SK,
SR_HDEMO_SK, SR_ADDR_SK, SR_STORE_SK, SR_REASON_SK, SR_TICKET_NUMBER,
SR_RETURN_QUANTITY, SR_RETURN_AMT, SR_RETURN_TAX, SR_RETURN_AMT_INC_TAX, SR_FEE,
SR_RETURN_SHIP_COST, SR_REFUNDED_CASH, SR_REVERSED_CHARGE, SR_STORE_CREDIT,
SR_NET_LOSS )
```

- 1.
2. load data
3. infile '/tmp/tpc/store\_returns.dat'
4. into table store\_returns
5. fields terminated by '|'
6. ( SR\_RETURNED\_DATE\_SK, SR\_RETURN\_TIME\_SK, SR\_ITEM\_SK, SR\_CUSTOMER\_SK,  
SR\_CDEMO\_SK, SR\_HDEMO\_SK, SR\_ADDR\_SK, SR\_STORE\_SK, SR\_REASON\_SK,  
SR\_TICKET\_NUMBER, SR\_RETURN\_QUANTITY, SR\_RETURN\_AMT, SR\_RETURN\_TAX,  
SR\_RETURN\_AMT\_INC\_TAX, SR\_FEE, SR\_RETURN\_SHIP\_COST, SR\_REFUNDED\_CASH,  
SR\_REVERSED\_CHARGE, SR\_STORE\_CREDIT, SR\_NET\_LOSS )
- 7.

- vi store\_sales.ctl

### store\_sales.ctl

```
load data infile '/tmp/tpc/store_sales.dat' into table store_sales fields terminated by '|' (
SS_SOLD_DATE_SK, SS_SOLD_TIME_SK, SS_ITEM_SK, SS_CUSTOMER_SK, SS_CDEMO_SK,
SS_HDEMO_SK, SS_ADDR_SK, SS_STORE_SK, SS_PROMO_SK, SS_TICKET_NUMBER, SS_QUANTITY,
SS_WHOLESALE_COST, SS_LIST_PRICE, SS_SALES_PRICE, SS_EXT_DISCOUNT_AMT,
SS_EXT_SALES_PRICE, SS_EXT_WHOLESALE_COST, SS_EXT_LIST_PRICE, SS_EXT_TAX,
SS_COUPON_AMT, SS_NET_PAID, SS_NET_PAID_INC_TAX, SS_NET_PROFIT )
```

- 1.
2. load data

```
3. infile '/tmp/tpc/store_sales.dat'
4. into table store_sales
5. fields terminated by '|'
6. ( SS_SOLD_DATE_SK, SS_SOLD_TIME_SK, SS_ITEM_SK, SS_CUSTOMER_SK,
    SS_CDEMO_SK, SS_HDEMO_SK, SS_ADDR_SK, SS_STORE_SK, SS_PROMO_SK,
    SS_TICKET_NUMBER, SS_QUANTITY, SS_WHOLESALE_COST, SS_LIST_PRICE,
    SS_SALES_PRICE, SS_EXT_DISCOUNT_AMT, SS_EXT_SALES_PRICE,
    SS_EXT_WHOLESALE_COST, SS_EXT_LIST_PRICE, SS_EXT_TAX, SS_COUPON_AMT,
    SS_NET_PAID, SS_NET_PAID_INC_TAX, SS_NET_PROFIT )
7.
```

- vi time\_dim.ctl

#### [time\\_dim.ctl](#)

```
load data infile '/tmp/tpc/time_dim.dat' into table time_dim fields terminated by '|' (
T_TIME_SK,T_TIME_ID,T_TIME,T_HOUR,T_MINUTE,T_SECOND,T_AM_PM,T_SHIFT,T_SUB_SHIFT,T_MEAL_TIME )
```

```
1.
2. load data
3. infile '/tmp/tpc/time_dim.dat'
4. into table time_dim
5. fields terminated by '|'
6. (
    T_TIME_SK,T_TIME_ID,T_TIME,T_HOUR,T_MINUTE,T_SECOND,T_AM_PM,T_SHIFT,T_SUB_SHIFT,T_MEAL_TIME )
7.
```

- vi warehouse.ctl

#### [warehouse.ctl](#)

```
load data infile '/tmp/tpc/warehouse.dat' into table warehouse fields terminated by '|' (
W_WAREHOUSE_SK,W_WAREHOUSE_ID,W_WAREHOUSE_NAME,W_WAREHOUSE_SQ_FT,W_STREET_NUMBER,W_STREET_NAME,W_STREET_TYPE,W_SUITE_NUMBER,W_CITY,W_COUNTY,W_STATE,W_ZIP,W_COUNTRY,W_GMT_OFFSET )
```

```
1.
2. load data
3. infile '/tmp/tpc/warehouse.dat'
4. into table warehouse
5. fields terminated by '|'
6. (
    W_WAREHOUSE_SK,W_WAREHOUSE_ID,W_WAREHOUSE_NAME,W_WAREHOUSE_SQ_FT,W_STREET_NUMBER,W_STREET_NAME,W_STREET_TYPE,W_SUITE_NUMBER,W_CITY,W_COUNTY,W_STATE,W_ZIP,W_COUNTRY,W_GMT_OFFSET )
7.
```

- vi web\_page.ctl

## web\_page.ctl

```
load data infile '/tmp/tpc/web_page.dat' into table web_page fields terminated by '|' (
WP_WEB_PAGE_SK, WP_WEB_PAGE_ID, WP_REC_START_DATE date "YYYY-MM-DD",
WP_REC_END_DATE date "YYYY-MM-DD", WP_CREATION_DATE_SK, WP_ACCESS_DATE_SK,
WP_AUTOGEN_FLAG, WP_CUSTOMER_SK, WP_URL, WP_TYPE, WP_CHAR_COUNT,
WP_LINK_COUNT, WP_IMAGE_COUNT, WP_MAX_AD_COUNT )
```

- 1.
2. load data
3. infile '/tmp/tpc/web\_page.dat'
4. into table web\_page
5. fields terminated by '|'
6. ( WP\_WEB\_PAGE\_SK, WP\_WEB\_PAGE\_ID, WP\_REC\_START\_DATE date "YYYY-MM-DD",  
WP\_REC\_END\_DATE date "YYYY-MM-DD", WP\_CREATION\_DATE\_SK,  
WP\_ACCESS\_DATE\_SK, WP\_AUTOGEN\_FLAG, WP\_CUSTOMER\_SK, WP\_URL, WP\_TYPE,  
WP\_CHAR\_COUNT, WP\_LINK\_COUNT, WP\_IMAGE\_COUNT, WP\_MAX\_AD\_COUNT )
- 7.

- vi web\_returns.ctl

## web\_returns.ctl

```
load data infile '/tmp/tpc/web_returns.dat' into table web_returns fields terminated by '|' (
WR_RETURNED_DATE_SK, WR_RETURNED_TIME_SK, WR_ITEM_SK,
WR_REFUNDED_CUSTOMER_SK, WR_REFUNDED_CDEMO_SK, WR_REFUNDED_HDEMO_SK,
WR_REFUNDED_ADDR_SK, WR_RETURNING_CUSTOMER_SK, WR_RETURNING_CDEMO_SK,
WR_RETURNING_HDEMO_SK, WR_RETURNING_ADDR_SK, WR_WEB_PAGE_SK, WR_REASON_SK,
WR_ORDER_NUMBER, WR_RETURN_QUANTITY, WR_RETURN_AMT, WR_RETURN_TAX,
WR_RETURN_AMT_INC_TAX, WR_FEE, WR_RETURN_SHIP_COST, WR_REFUNDED_CASH,
WR_REVERSED_CHARGE, WR_ACCOUNT_CREDIT, WR_NET_LOSS )
```

- 1.
2. load data
3. infile '/tmp/tpc/web\_returns.dat'
4. into table web\_returns
5. fields terminated by '|'
6. ( WR\_RETURNED\_DATE\_SK, WR\_RETURNED\_TIME\_SK, WR\_ITEM\_SK,  
WR\_REFUNDED\_CUSTOMER\_SK, WR\_REFUNDED\_CDEMO\_SK, WR\_REFUNDED\_HDEMO\_SK,  
WR\_REFUNDED\_ADDR\_SK, WR\_RETURNING\_CUSTOMER\_SK, WR\_RETURNING\_CDEMO\_SK,  
WR\_RETURNING\_HDEMO\_SK, WR\_RETURNING\_ADDR\_SK, WR\_WEB\_PAGE\_SK,  
WR\_REASON\_SK, WR\_ORDER\_NUMBER, WR\_RETURN\_QUANTITY, WR\_RETURN\_AMT,  
WR\_RETURN\_TAX, WR\_RETURN\_AMT\_INC\_TAX, WR\_FEE, WR\_RETURN\_SHIP\_COST,  
WR\_REFUNDED\_CASH, WR\_REVERSED\_CHARGE, WR\_ACCOUNT\_CREDIT, WR\_NET\_LOSS )
- 7.

- vi web\_sales.ctl

## web\_sales.ctl

```
load data infile '/tmp/tpc/web_sales.dat' into table web_sales fields terminated by '|' (
WS_SOLD_DATE_SK, WS_SOLD_TIME_SK, WS_SHIP_DATE_SK, WS_ITEM_SK,
```

```
WS_BILL_CUSTOMER_SK, WS_BILL_CDEMO_SK, WS_BILL_HDEMO_SK, WS_BILL_ADDR_SK,
WS_SHIP_CUSTOMER_SK, WS_SHIP_CDEMO_SK, WS_SHIP_HDEMO_SK, WS_SHIP_ADDR_SK,
WS_WEB_PAGE_SK, WS_WEB_SITE_SK, WS_SHIP_MODE_SK, WS_WAREHOUSE_SK,
WS_PROMO_SK, WS_ORDER_NUMBER, WS_QUANTITY, WS_WHOLESALE_COST, WS_LIST_PRICE,
WS_SALES_PRICE, WS_EXT_DISCOUNT_AMT, WS_EXT_SALES_PRICE, WS_EXT_WHOLESALE_COST,
WS_EXT_LIST_PRICE, WS_EXT_TAX, WS_COUPON_AMT, WS_EXT_SHIP_COST, WS_NET_PAID,
WS_NET_PAID_INC_TAX, WS_NET_PAID_INC_SHIP, WS_NET_PAID_INC_SHIP_TAX, WS_NET_PROFIT
)
```

- 1.
2. load data
3. infile '/tmp/tpc/web\_sales.dat'
4. into table web\_sales
5. fields terminated by '|'
6. ( WS\_SOLD\_DATE\_SK, WS\_SOLD\_TIME\_SK, WS\_SHIP\_DATE\_SK, WS\_ITEM\_SK,
WS\_BILL\_CUSTOMER\_SK, WS\_BILL\_CDEMO\_SK, WS\_BILL\_HDEMO\_SK,
WS\_BILL\_ADDR\_SK, WS\_SHIP\_CUSTOMER\_SK, WS\_SHIP\_CDEMO\_SK,
WS\_SHIP\_HDEMO\_SK, WS\_SHIP\_ADDR\_SK, WS\_WEB\_PAGE\_SK, WS\_WEB\_SITE\_SK,
WS\_SHIP\_MODE\_SK, WS\_WAREHOUSE\_SK, WS\_PROMO\_SK, WS\_ORDER\_NUMBER,
WS\_QUANTITY, WS\_WHOLESALE\_COST, WS\_LIST\_PRICE, WS\_SALES\_PRICE,
WS\_EXT\_DISCOUNT\_AMT, WS\_EXT\_SALES\_PRICE, WS\_EXT\_WHOLESALE\_COST,
WS\_EXT\_LIST\_PRICE, WS\_EXT\_TAX, WS\_COUPON\_AMT, WS\_EXT\_SHIP\_COST,
WS\_NET\_PAID, WS\_NET\_PAID\_INC\_TAX, WS\_NET\_PAID\_INC\_SHIP,
WS\_NET\_PAID\_INC\_SHIP\_TAX, WS\_NET\_PROFIT )
- 7.

- vi web\_site.ctf

## web\_site.ctf

```
load data infile '/tmp/tpc/web_site.dat' into table web_site fields terminated by '|' (
WEB_SITE_SK, WEB_SITE_ID, WEB_REC_START_DATE date "YYYY-MM-DD", WEB_REC_END_DATE
date "YYYY-MM-DD", WEB_NAME, WE B_OPEN_DATE_SK, WEB_CLOSE_DATE_SK, WEB_CLASS,
WEB_MANAGER, WEB_MKT_ID, WEB_MKT_CLASS, WEB_MKT_DESC, WEB_MARKET_MAN AGER,
WEB_COMPANY_ID, WEB_COMPANY_NAME, WEB_STREET_NUMBER, WEB_STREET_NAME,
WEB_STREET_TYPE, WEB_SUITE_NUMBER, WEB_CITY, WEB_COUNTY, WEB_STATE, WEB_ZIP,
WEB_COUNTRY, WEB_GMT_OFFSET, WEB_TAX_PERCENTAGE )
```

- 1.
2. load data
3. infile '/tmp/tpc/web\_site.dat'
4. into table web\_site
5. fields terminated by '|'
6. ( WEB\_SITE\_SK, WEB\_SITE\_ID, WEB\_REC\_START\_DATE date "YYYY-MM-DD",
WEB\_REC\_END\_DATE date "YYYY-MM-DD", WEB\_NAME, WE
7. B\_OPEN\_DATE\_SK, WEB\_CLOSE\_DATE\_SK, WEB\_CLASS, WEB\_MANAGER, WEB\_MKT\_ID,
WEB\_MKT\_CLASS, WEB\_MKT\_DESC, WEB\_MARKET\_MAN
8. AGER, WEB\_COMPANY\_ID, WEB\_COMPANY\_NAME, WEB\_STREET\_NUMBER,
WEB\_STREET\_NAME, WEB\_STREET\_TYPE, WEB\_SUITE\_NUMBER, WEB
9. \_CITY, WEB\_COUNTY, WEB\_STATE, WEB\_ZIP, WEB\_COUNTRY, WEB\_GMT\_OFFSET,
WEB\_TAX\_PERCENTAGE )
- 10.

## Import the data using Oracle Loader

- sqlldr tpcds/\* control=call\_center.ctl
- sqlldr tpcds/\* control=catalog\_page.ctl
- sqlldr tpcds/\* control=catalog\_returns.ctl
- sqlldr tpcds/\* control=catalog\_sales.ctl
- sqlldr tpcds/\* control=customer\_address.ctl
- sqlldr tpcds/\* control=customer.ctl
- sqlldr tpcds/\* control=customer\_demographics.ctl
- sqlldr tpcds/\* control=date\_dim.ctl
- sqlldr tpcds/\* control=dbgen\_version.ctl
- sqlldr tpcds/\* control=household\_demographics.ctl
- sqlldr tpcds/\* control=income\_band.ctl
- sqlldr tpcds/\* control=inventory.ctl
- sqlldr tpcds/\* control=item.ctl
- sqlldr tpcds/\* control=promotion.ctl
- sqlldr tpcds/\* control=reason.ctl
- sqlldr tpcds/\* control=ship\_mode.ctl
- sqlldr tpcds/\* control=store.ctl
- sqlldr tpcds/\* control=store\_returns.ctl
- sqlldr tpcds/\* control=store\_sales.ctl
- sqlldr tpcds/\* control=time\_dim.ctl
- sqlldr tpcds/\* control=warehouse.ctl
- sqlldr tpcds/\* control=web\_page.ctl
- sqlldr tpcds/\* control=web\_returns.ctl
- sqlldr tpcds/\* control=web\_sales.ctl
- sqlldr tpcds/\* control=web\_site.ctl

## Links

<http://www.tpc.org/tpcds/default.asp>

<http://agni.csa.iisc.ernet.in/CASL/tpcds>

[http://www.orafaq.com/wiki/SQL\\*Loader\\_FAQ](http://www.orafaq.com/wiki/SQL*Loader_FAQ)

From:

<https://wiki.inf.unibz.it/> - **Engineering-Tech Wiki**

Permanent link:

[https://wiki.inf.unibz.it/doku.php?id=public:tpc-ds\\_benchmark&rev=1355826355](https://wiki.inf.unibz.it/doku.php?id=public:tpc-ds_benchmark&rev=1355826355)

Last update: **2019/01/16 10:03**

