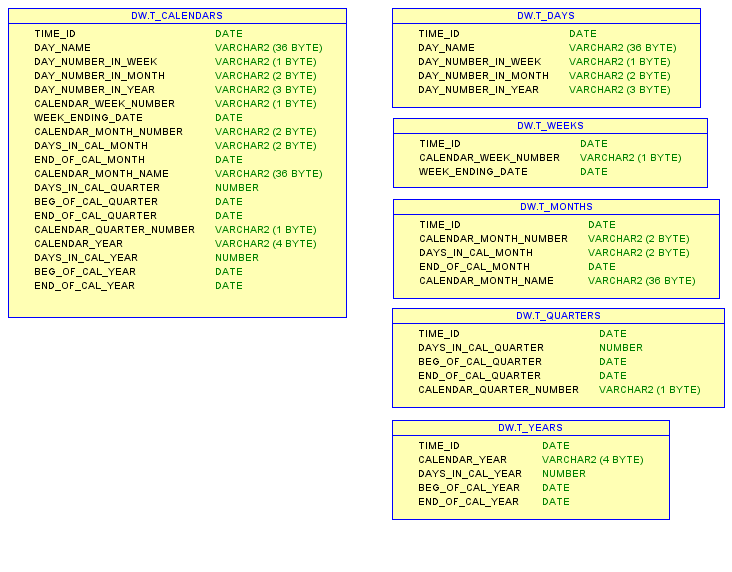
**Dimension and Facts Basics**



*/\* Formatted on 7/22/2013 5:00:20 PM (QP5 v5.139.911.3011) \*/*

CREATE USER dw

IDENTIFIED BY 123456

DEFAULT TABLESPACE ts\_dw\_data\_01;

GRANT CONNECT,RESOURCE TO dw;

ALTER USER dw QUOTA UNLIMITED ON TS\_REFERENCES\_DATA\_01;

create table t\_calendars as SELECT *-- create full year 2013*

TRUNC( sd + rn ) time\_id,

TO\_CHAR( sd + rn, 'fmDay' ) day\_name,

TO\_CHAR( sd + rn, 'D' ) day\_number\_in\_week,

TO\_CHAR( sd + rn, 'DD' ) day\_number\_in\_month,

TO\_CHAR( sd + rn, 'DDD' ) day\_number\_in\_year,

TO\_CHAR( sd + rn, 'W' ) calendar\_week\_number,

( CASE

WHEN TO\_CHAR( sd + rn, 'D' ) IN ( 1, 2, 3, 4, 5, 6 ) THEN

NEXT\_DAY( sd + rn, 'Saturday' )

ELSE

( sd + rn )

END ) week\_ending\_date,

TO\_CHAR( sd + rn, 'MM' ) calendar\_month\_number,

TO\_CHAR( LAST\_DAY( sd + rn ), 'DD' ) days\_in\_cal\_month,

LAST\_DAY( sd + rn ) end\_of\_cal\_month,

TO\_CHAR( sd + rn, 'FMMonth' ) calendar\_month\_name,

( ( CASE

WHEN TO\_CHAR( sd + rn, 'Q' ) = 1 THEN

TO\_DATE( '03/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 2 THEN

TO\_DATE( '06/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 3 THEN

TO\_DATE( '09/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 4 THEN

TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

END ) - TRUNC( sd + rn, 'Q' ) + 1 ) days\_in\_cal\_quarter,

TRUNC( sd + rn, 'Q' ) beg\_of\_cal\_quarter,

( CASE

WHEN TO\_CHAR( sd + rn, 'Q' ) = 1 THEN

TO\_DATE( '03/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 2 THEN

TO\_DATE( '06/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 3 THEN

TO\_DATE( '09/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 4 THEN

TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

END ) end\_of\_cal\_quarter,

TO\_CHAR( sd + rn, 'Q' ) calendar\_quarter\_number,

TO\_CHAR( sd + rn, 'YYYY' ) calendar\_year,

( TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

- TRUNC( sd + rn, 'YEAR' ) ) days\_in\_cal\_year,

TRUNC( sd + rn, 'YEAR' ) beg\_of\_cal\_year,

TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' ) end\_of\_cal\_year

FROM

(

SELECT

TO\_DATE( '12/31/2012', 'MM/DD/YYYY' ) sd,

rownum rn

FROM dual

CONNECT BY level <= 365

)

;

*-- separated*

create table t\_days as SELECT *-- day*

TRUNC( sd + rn ) time\_id,

TO\_CHAR( sd + rn, 'fmDay' ) day\_name,

TO\_CHAR( sd + rn, 'D' ) day\_number\_in\_week,

TO\_CHAR( sd + rn, 'DD' ) day\_number\_in\_month,

TO\_CHAR( sd + rn, 'DDD' ) day\_number\_in\_year

FROM

(

SELECT

TO\_DATE( '12/31/2012', 'MM/DD/YYYY' ) sd,

rownum rn

FROM dual

CONNECT BY level <= 365

)

;

create table t\_weeks as SELECT *-- week*

TRUNC( sd + rn ) time\_id,

TO\_CHAR( sd + rn, 'W' ) calendar\_week\_number,

( CASE

WHEN TO\_CHAR( sd + rn, 'D' ) IN ( 1, 2, 3, 4, 5, 6 ) THEN

NEXT\_DAY( sd + rn, 'Saturday' )

ELSE

( sd + rn )

END ) week\_ending\_date

FROM

(

SELECT

TO\_DATE( '12/31/2012', 'MM/DD/YYYY' ) sd,

rownum rn

FROM dual

CONNECT BY level <= 365

)

;

create table t\_months as SELECT *-- month*

TRUNC( sd + rn ) time\_id,

TO\_CHAR( sd + rn, 'MM' ) calendar\_month\_number,

TO\_CHAR( LAST\_DAY( sd + rn ), 'DD' ) days\_in\_cal\_month,

LAST\_DAY( sd + rn ) end\_of\_cal\_month,

TO\_CHAR( sd + rn, 'FMMonth' ) calendar\_month\_name

FROM

(

SELECT

TO\_DATE( '12/31/2012', 'MM/DD/YYYY' ) sd,

rownum rn

FROM dual

CONNECT BY level <= 365

)

;

create table t\_quarters as SELECT *-- quarter*

TRUNC( sd + rn ) time\_id,

( ( CASE

WHEN TO\_CHAR( sd + rn, 'Q' ) = 1 THEN

TO\_DATE( '03/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 2 THEN

TO\_DATE( '06/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 3 THEN

TO\_DATE( '09/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 4 THEN

TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

END ) - TRUNC( sd + rn, 'Q' ) + 1 ) days\_in\_cal\_quarter,

TRUNC( sd + rn, 'Q' ) beg\_of\_cal\_quarter,

( CASE

WHEN TO\_CHAR( sd + rn, 'Q' ) = 1 THEN

TO\_DATE( '03/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 2 THEN

TO\_DATE( '06/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 3 THEN

TO\_DATE( '09/30/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

WHEN TO\_CHAR( sd + rn, 'Q' ) = 4 THEN

TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

END ) end\_of\_cal\_quarter,

TO\_CHAR( sd + rn, 'Q' ) calendar\_quarter\_number

FROM

(

SELECT

TO\_DATE( '12/31/2012', 'MM/DD/YYYY' ) sd,

rownum rn

FROM dual

CONNECT BY level <= 365

)

;

create table t\_years as SELECT *-- year*

TRUNC( sd + rn ) time\_id,

TO\_CHAR( sd + rn, 'YYYY' ) calendar\_year,

( TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' )

- TRUNC( sd + rn, 'YEAR' ) ) days\_in\_cal\_year,

TRUNC( sd + rn, 'YEAR' ) beg\_of\_cal\_year,

TO\_DATE( '12/31/' || TO\_CHAR( sd + rn, 'YYYY' ), 'MM/DD/YYYY' ) end\_of\_cal\_year

FROM

(

SELECT

TO\_DATE( '12/31/2012', 'MM/DD/YYYY' ) sd,

rownum rn

FROM dual

CONNECT BY level <= 365

)

;