alter session set nls\_date\_language='AMERICAN';

DROP TABLE DIM\_DATE PURGE;

CREATE TABLE DIM\_DATE

(DATE\_KEY NUMBER

,DATE\_FULL VARCHAR2(20)

,DATE\_FULL\_STRING VARCHAR2(50)

,DATE\_WEEKDAY\_FL NUMBER

,DATE\_IS\_HOLIDAY NUMBER

,WEEK\_LAST\_DAY NUMBER

,YEAR\_LAST\_DAY NUMBER

,DAY\_OF\_WEEK\_NAME VARCHAR2(20)

,MONTH\_NAME VARCHAR2(20)

,DAY\_OF\_WEEK NUMBER

,DAY\_OF\_MONTH NUMBER

,DAY\_OF\_YEAR\_NUMBER NUMBER

,WEEK\_NUMBER\_OF\_MONTH NUMBER

,WEEK\_NUMBER\_OF\_YEAR NUMBER

,MONTH\_NUMBER\_OF\_YEAR NUMBER

,YEAR\_NUMBER NUMBER

,DATE\_WEEK\_BEGIN\_DT DATE

,DATE\_WEEK\_END\_DT DATE

,DATE\_MONTH\_BEGIN\_DT DATE

,DATE\_MONTH\_END\_DT DATE

,QUARTER\_START\_DT DATE

,QUARTER\_END\_DT DATE

,YEAR\_FD DATE

,DATE\_YR\_END\_DT DATE

,CONSTRAINT PK\_DIM\_DATE PRIMARY KEY (DATE\_KEY)

);

CREATE INDEX IDX\_DIM\_DATE\_01 ON DIM\_DATE(SUBSTR(DATE\_KEY,5,4)) NOLOGGING COMPUTE STATISTICS;

INSERT INTO DIM\_DATE

select to\_number(to\_char(mydate, 'yyyymmdd')) DATE\_KEY

,to\_char(mydate, 'yyyy-mm-dd') DATE\_FULL

,to\_char(mydate, 'fmMonth dd, yyyy') DATE\_FULL\_STRING

,case

when to\_number(to\_char(mydate, 'D')) in (6, 7)

then 0

else 1

end DATE\_WEEKDAY\_FL

,0 DATE\_IS\_HOLIDAY

,case

when to\_char(mydate, 'fmDay') = 'Saturday'

then 1

else 0

end WEEK\_LAST\_DAY

,decode(to\_number(to\_char(mydate, 'mmdd')),1231,1,0) YEAR\_LAST\_DAY

,to\_char(mydate, 'fmDay') DATE\_DAY\_OF\_WEEK\_NAME

,to\_char(mydate,'fmMonth') MONTH\_NAME

,case to\_number(to\_char(mydate, 'D'))

when 7 then 1

else to\_number(to\_char(mydate, 'D')) + 1

end DAY\_OF\_WEEK

,to\_number(to\_char(mydate, 'DD')) DAY\_OF\_MONTH

,to\_number(to\_char(mydate,'ddd')) DAY\_OF\_YEAR\_NUMBER

,to\_number(to\_char(mydate,'W')) WEEK\_NUMBER\_OF\_MONTH

,case

when TO\_CHAR(mydate,'D') < TO\_CHAR(TO\_DATE(to\_char(mydate,'yyyy')||'0101' ,'YYYYMMDD'),'D') THEN TO\_CHAR(mydate,'WW') + 1 ELSE TO\_CHAR(mydate,'WW') + 0 end WEEK\_NUMBER\_OF\_YEAR

,to\_number(to\_char(mydate,'mm')) MONTH\_NUMBER\_OF\_YEAR

,to\_number(to\_char(mydate,'YYYY')) YEAR\_NUMBER

,decode(to\_char(mydate, 'fmDay'),'Sunday',trunc(mydate)

,next\_day(trunc(mydate-7,'DD'), 'sun')) DATE\_OF\_WEEK\_BEGIN\_DT

,decode(to\_char(mydate, 'fmDay'),'Saturday',trunc(mydate)

,next\_day(trunc(mydate,'DD'), 'sat')) DATE\_OF\_WEEK\_END\_DT

,TO\_DATE(TO\_CHAR(mydate,'YYYYMM')||'01','YYYYMMDD') DATE\_OF\_MONTH\_BEGIN\_DT

,trunc(last\_day(mydate)) DATE\_OF\_MONTH\_END\_DT

,case to\_number(to\_char(mydate,'Q'))

when 1 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0101','YYYYMMDD')

when 2 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0401','YYYYMMDD')

when 3 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0701','YYYYMMDD')

when 4 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'1001','YYYYMMDD')

else null

end QUARTER\_START\_DTF

,case to\_number(to\_char(mydate,'Q'))

when 1 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0331','YYYYMMDD')

when 2 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0630','YYYYMMDD')

when 3 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0930','YYYYMMDD')

when 4 then TO\_DATE(TO\_CHAR(mydate,'YYYY')||'1231','YYYYMMDD')

else null

end QUARTER\_END\_DT

,TO\_DATE(TO\_CHAR(mydate,'YYYY')||'0101','YYYYMMDD') DATE\_YEAR\_BEGIN\_DT

,TO\_DATE(TO\_CHAR(mydate,'YYYY')||'1231','YYYYMMDD') DATE\_YEAR\_END\_DT

from (select trunc(add\_months(sysdate, -60),'YY') - 1 + LEVEL mydate from dual connect by level <=

(select trunc(add\_months(sysdate,132),'YY') -trunc(add\_months(sysdate,-60),'YY') from dual) order by 1);

COMMIT;

Update dim\_date set DATE\_IS\_HOLIDAY = 1

where date\_key in

( SELECT DATE\_KEY

FROM DIM\_DATE

WHERE DATE\_KEY IN

(SELECT \*

FROM (SELECT DISTINCT TO\_NUMBER(TO\_CHAR(NEXT\_DAY('14-Jan-'||YEAR\_NUMBER,'Monday'),'YYYYMMDD'))

FROM DIM\_DATE UNION SELECT DISTINCT TO\_NUMBER(TO\_CHAR(NEXT\_DAY('14-Feb-'||YEAR\_NUMBER,'Monday'),'YYYYMMDD'))

FROM DIM\_DATE UNION SELECT DISTINCT TO\_NUMBER(TO\_CHAR(NEXT\_DAY('23-May-'||YEAR\_NUMBER,'Monday'),'YYYYMMDD'))

FROM DIM\_DATE UNION SELECT DISTINCT TO\_NUMBER(TO\_CHAR(NEXT\_DAY('31-Aug-'||YEAR\_NUMBER,'Monday'),'YYYYMMDD'))

FROM DIM\_DATE UNION SELECT DISTINCT TO\_NUMBER(TO\_CHAR(NEXT\_DAY( '7-Oct-'||YEAR\_NUMBER,'Monday'),'YYYYMMDD'))

FROM DIM\_DATE UNION SELECT DISTINCT TO\_NUMBER(TO\_CHAR(NEXT\_DAY('21-Nov-'||YEAR\_NUMBER,'Thursday'),'YYYYMMDD'))

FROM DIM\_DATE UNION SELECT DECODE(DATE\_DAY\_OF\_WEEK\_NAME,'Sunday',DATE\_KEY+1,DATE\_KEY)

FROM DIM\_DATE WHERE SUBSTR(DATE\_KEY,5,4) = '0120' AND MOD(YEAR\_NUMBER,4) = 1 UNION

SELECT DECODE(DATE\_DAY\_OF\_WEEK\_NAME, 'Saturday',DATE\_KEY-1, 'Sunday',DATE\_KEY+1, DATE\_KEY)

FROM DIM\_DATE WHERE SUBSTR(DATE\_KEY,5,4) = '0101' OR SUBSTR(DATE\_KEY,5,4) = '0704' OR SUBSTR(DATE\_KEY,5,4) = '1111' OR SUBSTR(DATE\_KEY,5,4) = '1225' ) ) );

COMMIT;

SELECT \* FROM DIM\_DATE

where sysdate between DATE\_WEEK\_BEGIN\_DT and DATE\_WEEK\_END\_DT order by date\_key;

select sysdate from dual;