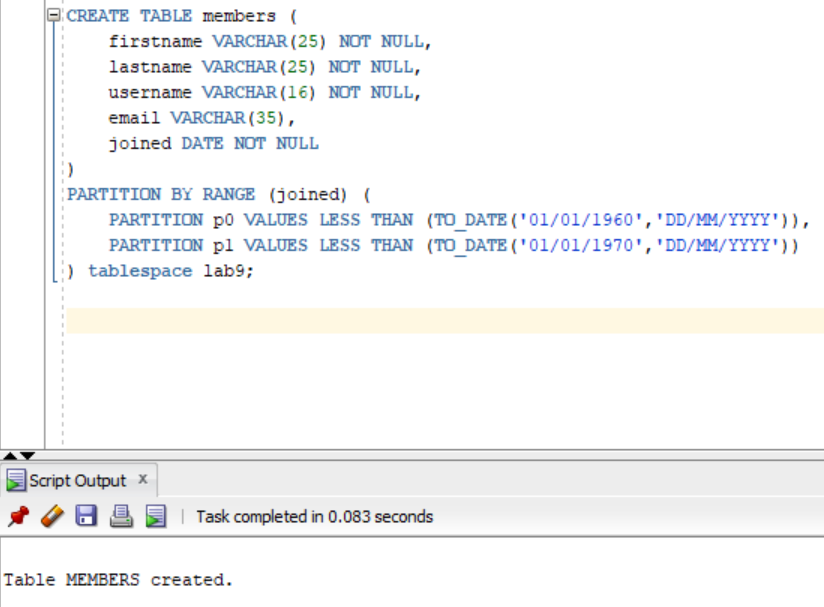
# 2. Oracle Architecture - Partitioning

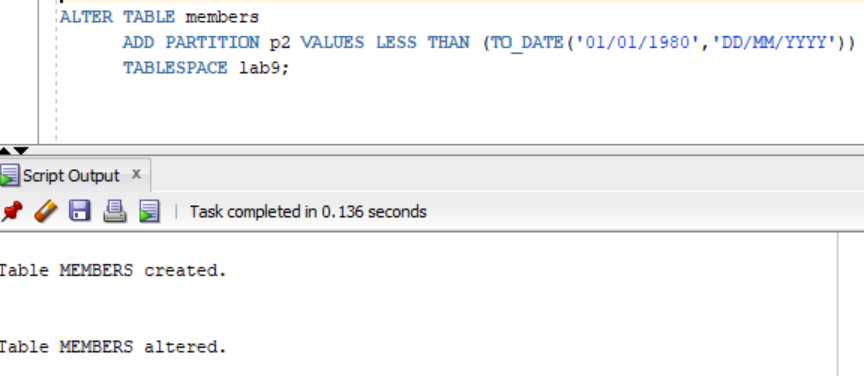
all scripts are stored in folder scripts

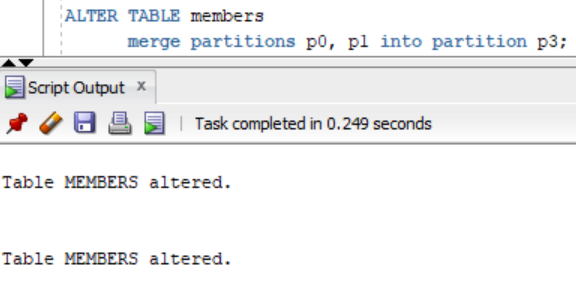
## 2.1. Task 01: CREATE Example of Range partitioning

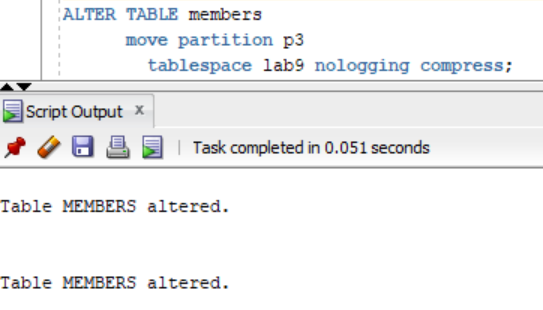
| Maintenance Operation | Range Composite Range-\* | Interval Composite Interval-\* | Hash | List Composite List-\* | Reference |
| --- | --- | --- | --- | --- | --- |
| [Adding Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007318) | ADD PARTITION | ADD PARTITION | ADD PARTITION | ADD PARTITION | N/A[Foot 1](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#BAJCBJBA) |
| [Coalescing Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007442) | N/A | N/A | COALESCE PARTITION | N/A | N/A[Footref 1](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#sthref213) |
| [Dropping Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007479) | DROP PARTITION | DROP PARTITION | N/A | DROP PARTITION | N/A[Footref 1](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#sthref214) |
| [Merging Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007638) | MERGE PARTITIONS | MERGE PARTITIONS | N/A | MERGE PARTITIONS | N/A[Footref 1](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#sthref215) |
| [Moving Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1007920) | MOVE PARTITION | MOVE PARTITION | MOVE PARTITION | MOVE PARTITION | MOVE PARTITION |
| [Splitting Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1008028) | SPLIT PARTITION | SPLIT PARTITION | N/A | SPLIT PARTITION | N/A[Footref 1](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#sthref216) |
| [Truncating Partitions](http://docs.oracle.com/cd/B28359_01/server.111/b32024/part_admin.htm#i1008226) | TRUNCATE PARTITION | TRUNCATE PARTITION | TRUNCATE PARTITION | TRUNCATE PARTITION | TRUNCATE PARTITION |

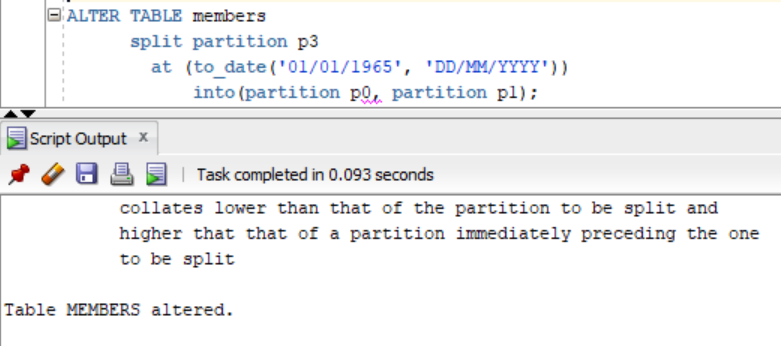
# Range partitioning

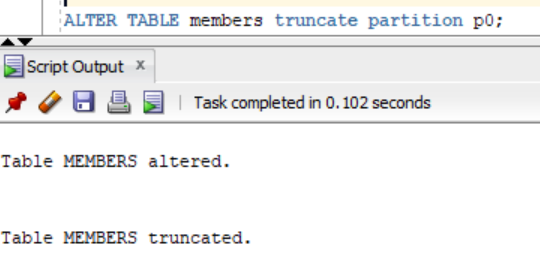


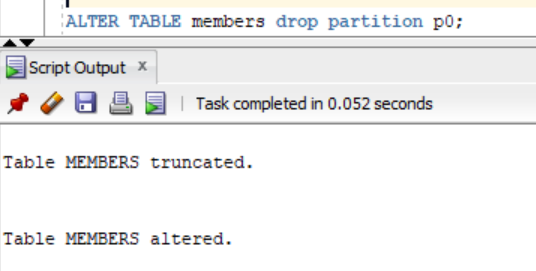




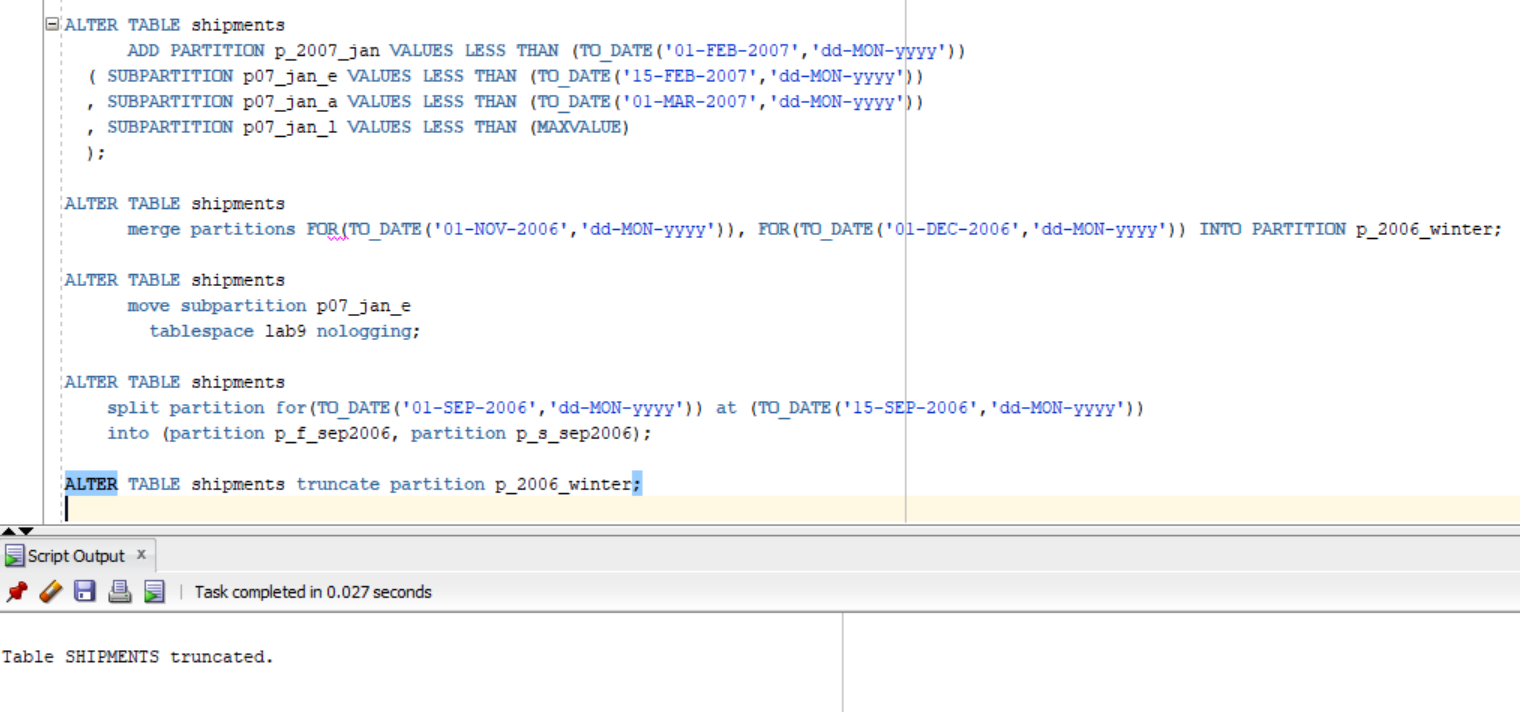




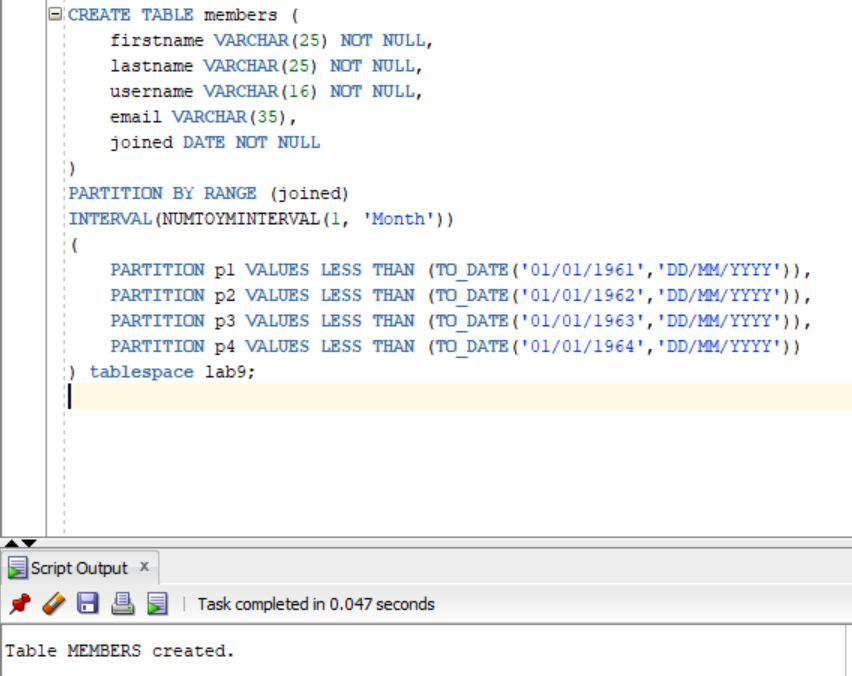


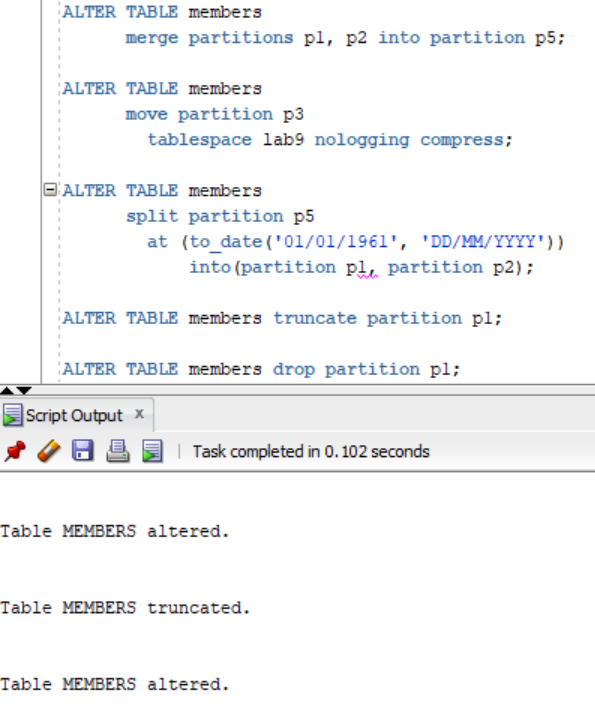


composite range

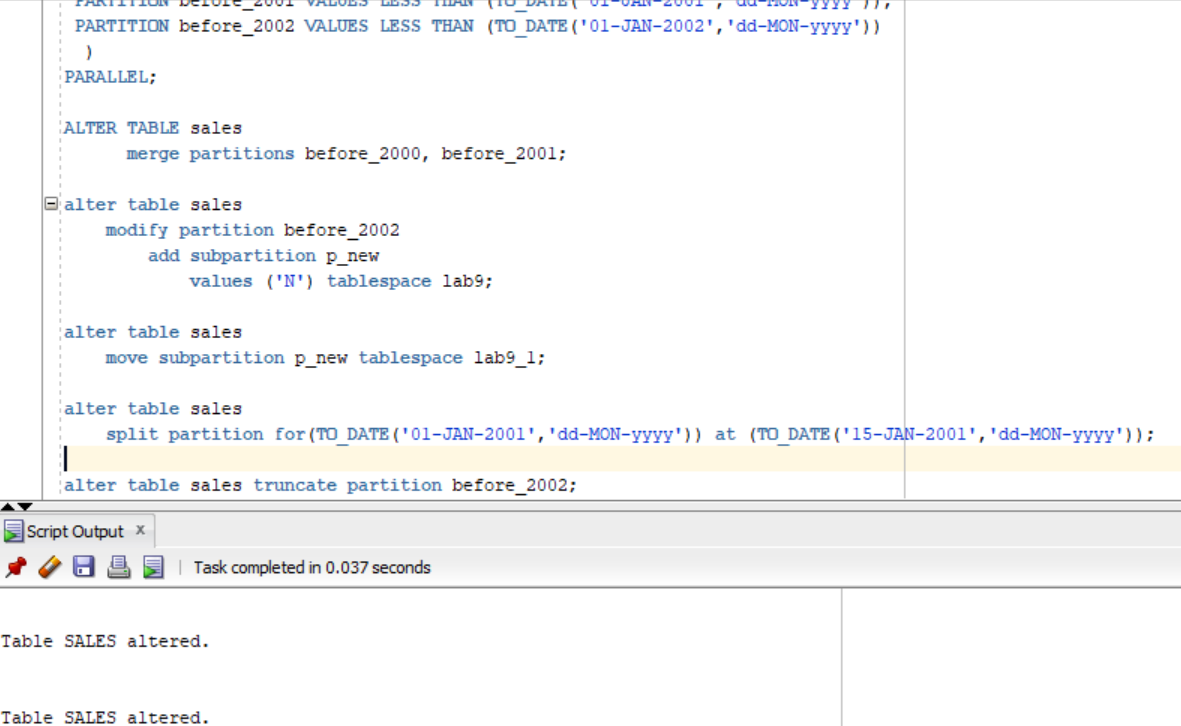


Interval partitioning

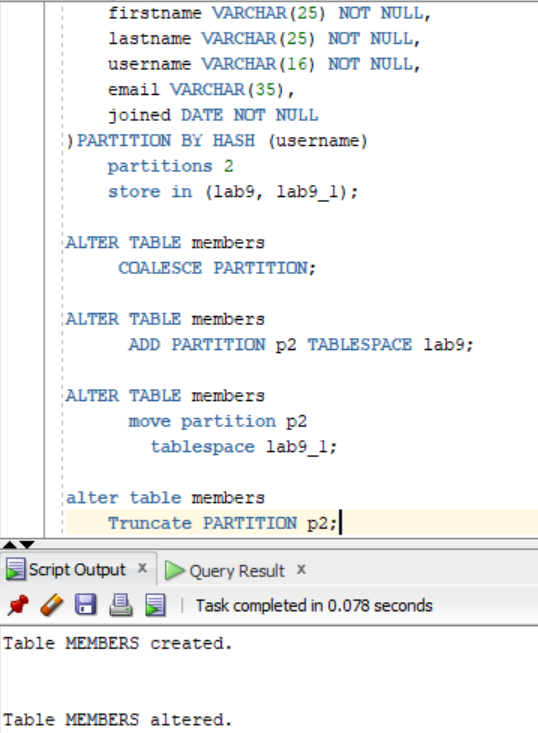




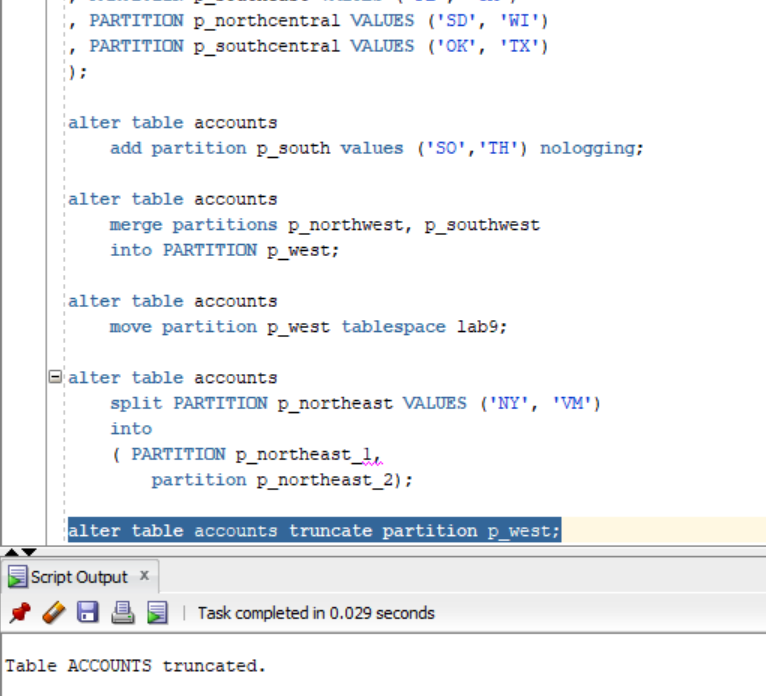
composite interval



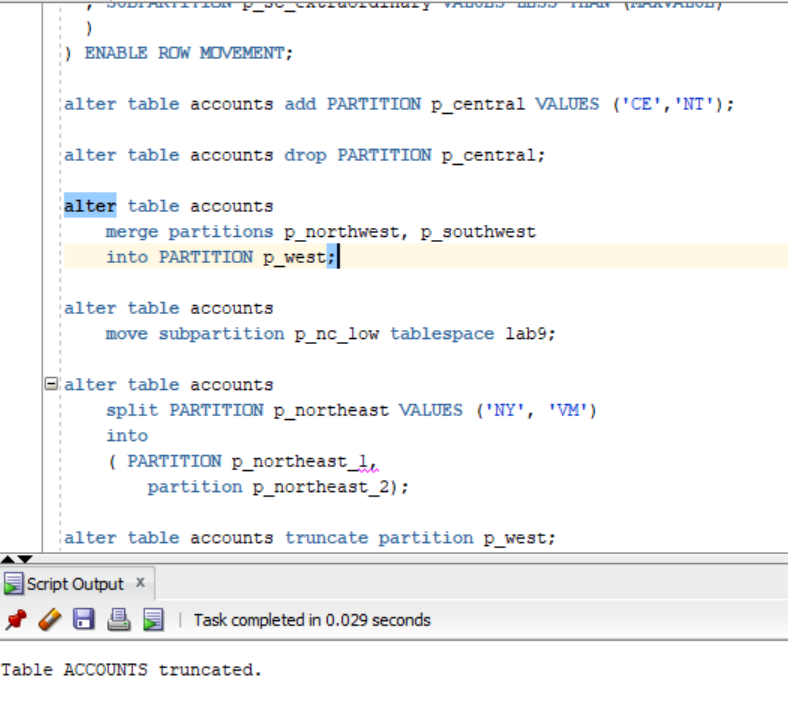
hash partitioning



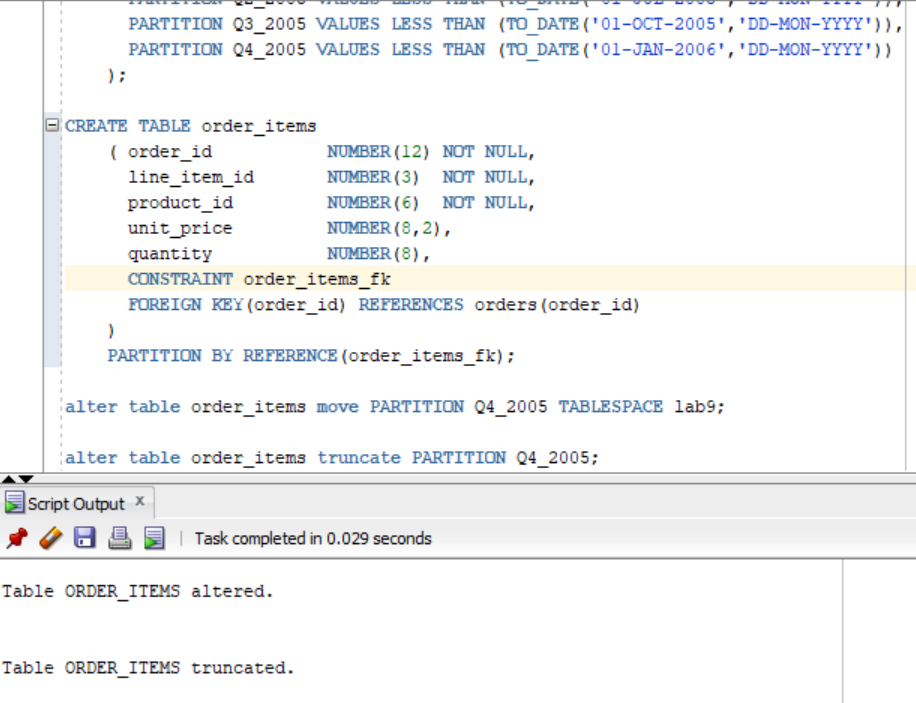
list partitioning



composite list

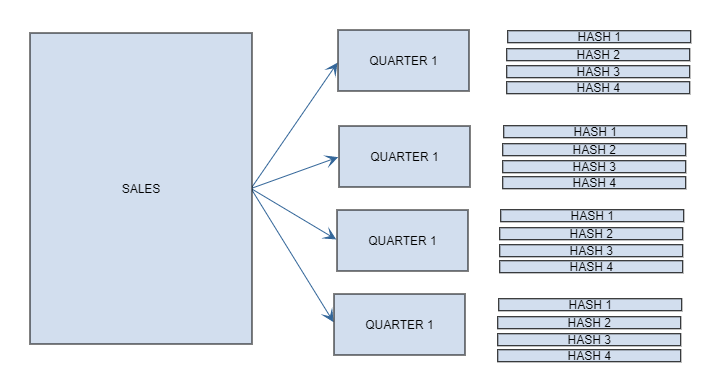


reference partitioning



# 3. Business Task - Partitioning Facts

## 3.1. Task 02: Partitioning Facts

****

Sales data will be divided into 4 parts by quarters (quarter - information for 3 months) with range partition using event\_dt. And each quarter partition will be divided into 4 subparts with a hash partition using sales\_cat\_id.  
####################################################

PARTITION BY RANGE (EVENT\_DT)

subpartition by hash(SALES\_CAT\_ID) subpartitions 4

(

PARTITION QUARTER\_1 VALUES LESS THAN(TO\_DATE('01-apr-2020','dd-mon-yyyy'))

(

subpartition Q\_1\_1,

subpartition Q\_1\_2,

subpartition Q\_1\_3,

subpartition Q\_1\_4

),

PARTITION QUARTER\_2 VALUES LESS THAN(TO\_DATE('01-jul-2020','dd-mon-yyyy'))

(

subpartition Q\_2\_1,

subpartition Q\_2\_2,

subpartition Q\_2\_3,

subpartition Q\_2\_4

),

PARTITION QUARTER\_3 VALUES LESS THAN(TO\_DATE('01-oct-2020','dd-mon-yyyy'))

(

subpartition Q\_3\_1,

subpartition Q\_3\_2,

subpartition Q\_3\_3,

subpartition Q\_3\_4

),

PARTITION QUARTER\_4 VALUES LESS THAN(TO\_DATE('01-jan-2021','dd-mon-yyyy'))

(

subpartition Q\_4\_1,

subpartition Q\_4\_2,

subpartition Q\_4\_3,

subpartition Q\_4\_4

)

)

####################################################