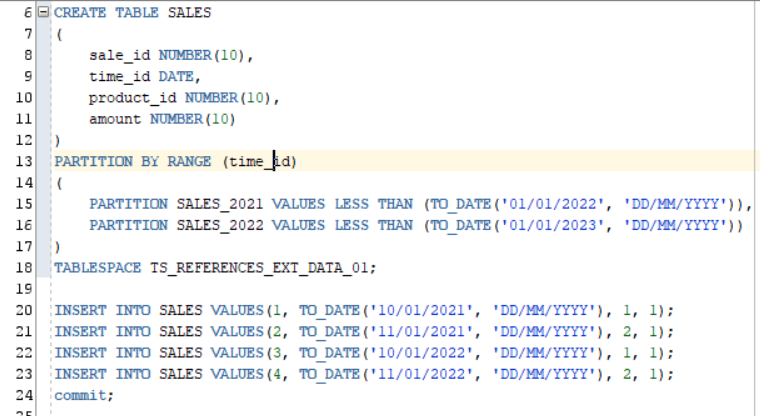
**Anton Slizh’s**

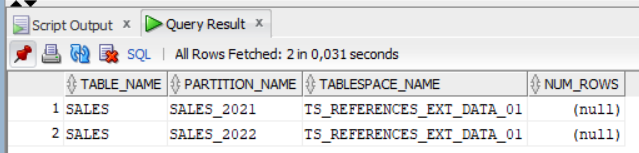
**U1M9.LW.Partitioning**

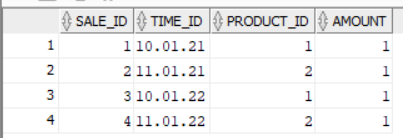
**Task 1**

**Range partitioning**

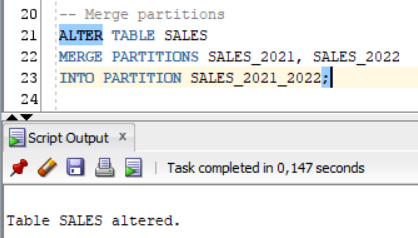
Creating table and insert test data:

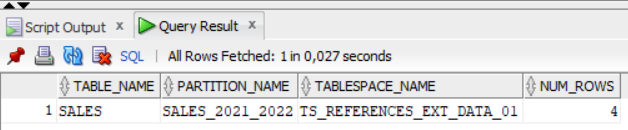




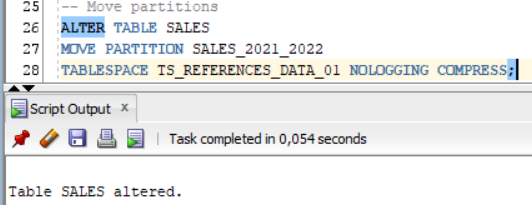


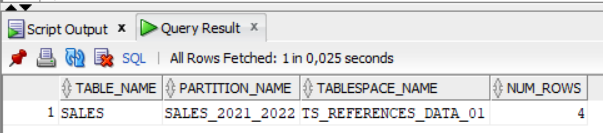
Merging partitions:

****

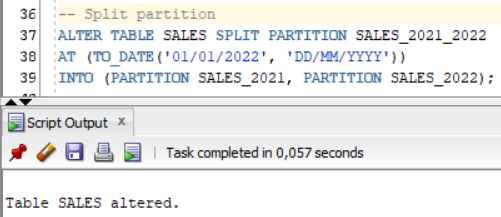
****

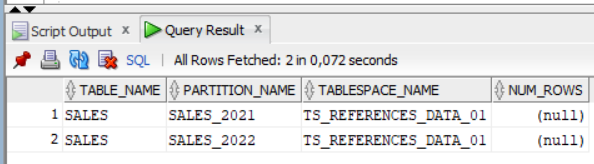
Moving partition to another tablespace:



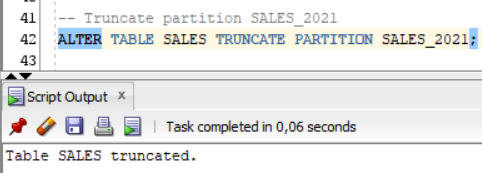


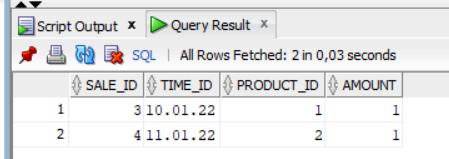
Splitting partition into 2 partitions:



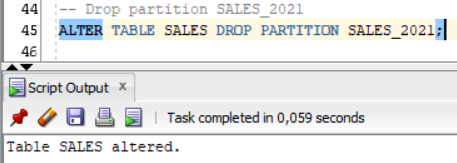


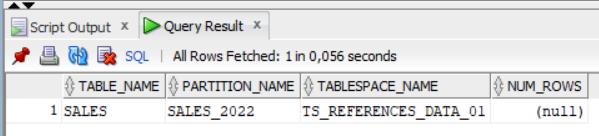
Truncating partition SALES\_2021:



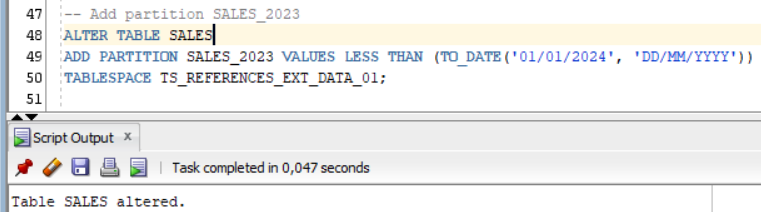


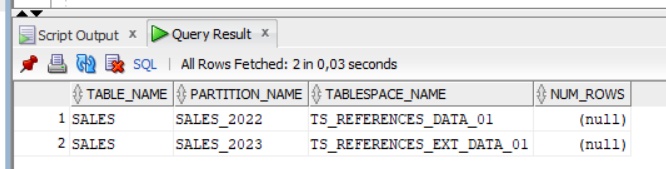
Dropping partition SALES\_2021:





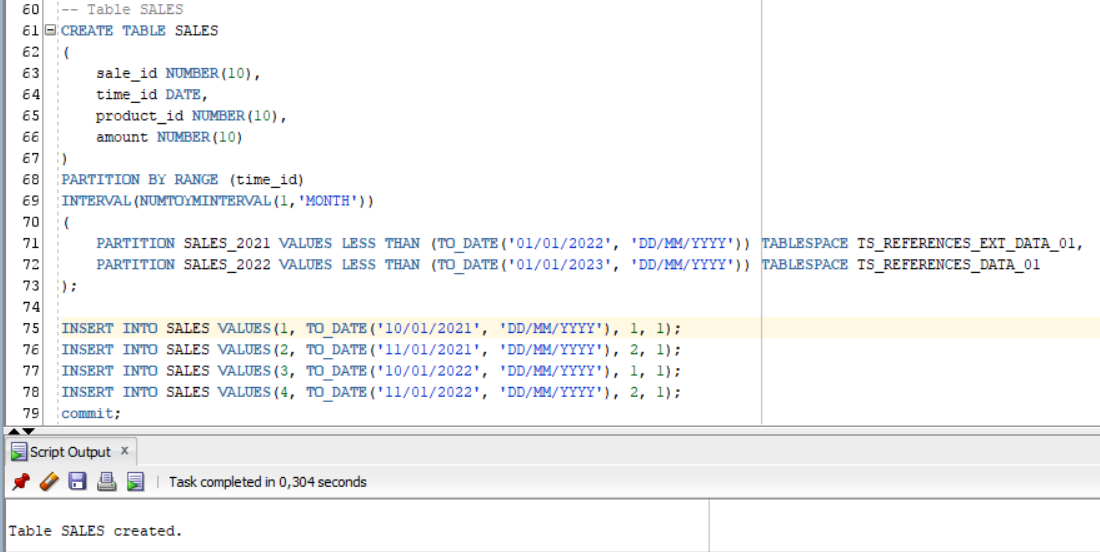
Adding partition SALES\_2023

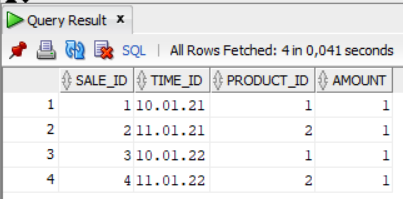


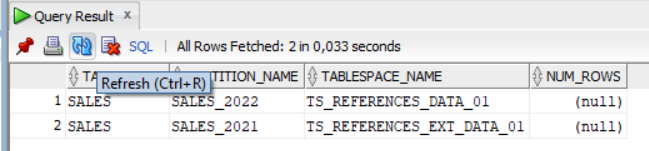


**Interval partitioning**

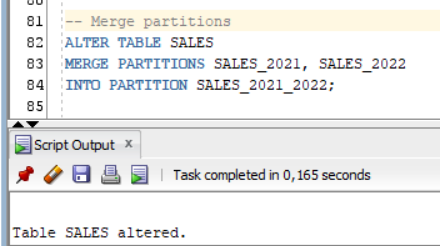
Creating table SALES:

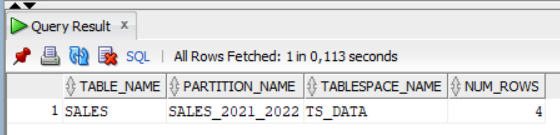




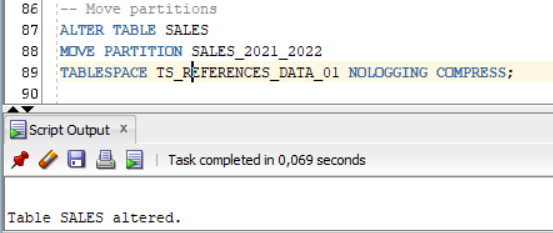


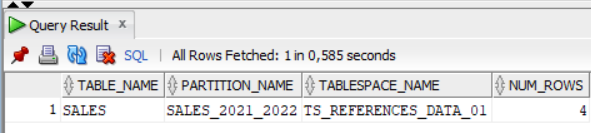
Merging partitions into SALES\_2021\_2022 partition:



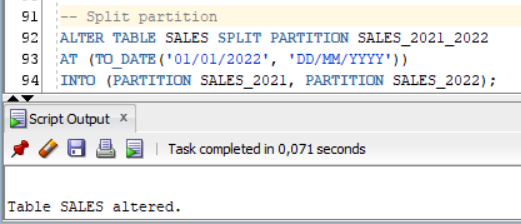


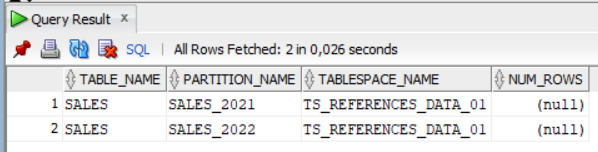
Moving partition to another tablespace:



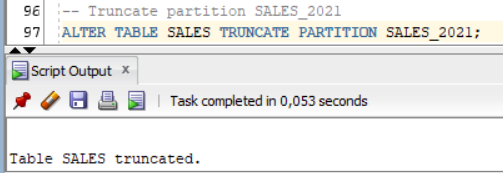


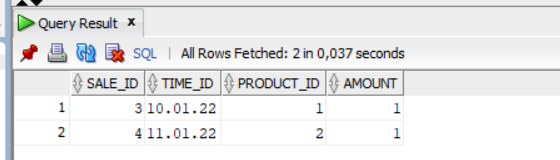
Splitting partition into SALES\_2021 and SALES\_2022 partitions:



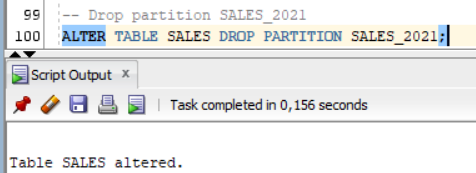


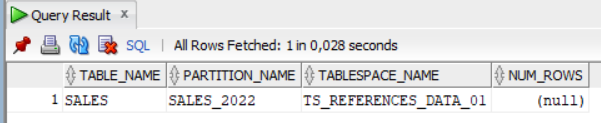
Truncating partition SALES\_2021:





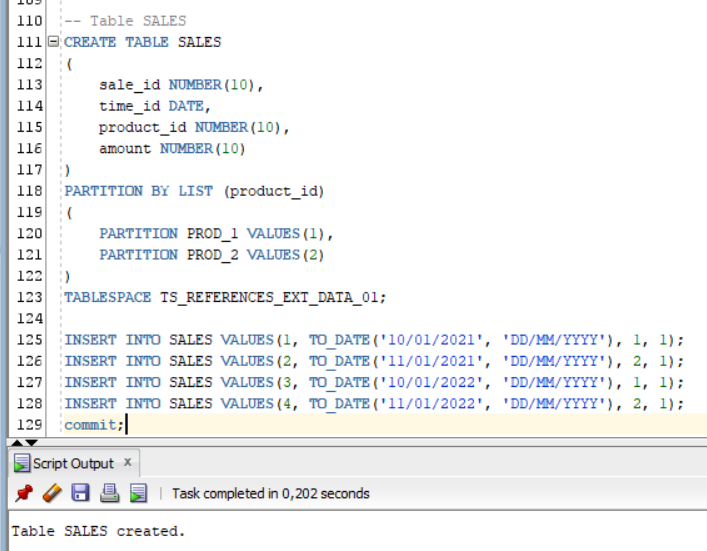
Dropping partition SALES\_2021:

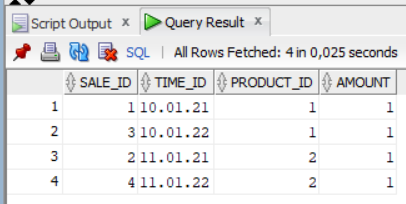


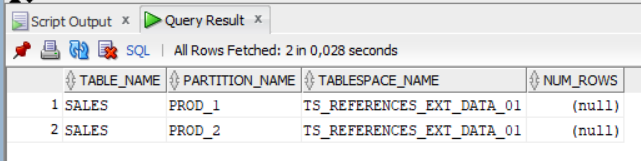


**List partitioning**

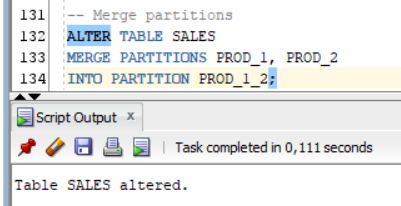
Creating table SALES and inserting test data:

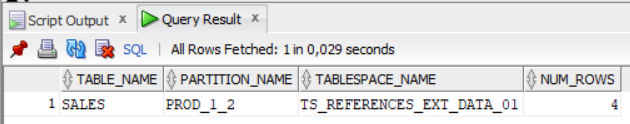




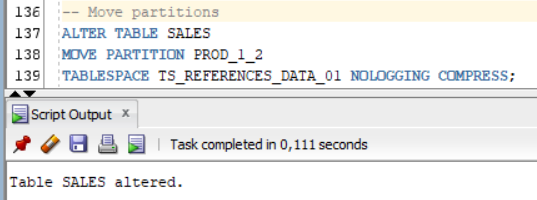


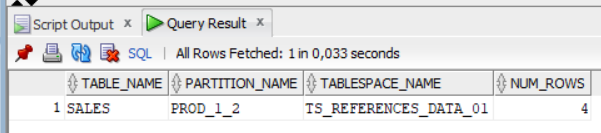
Merging partitions PROD\_1 and PROD\_2 into PROD\_1\_2:



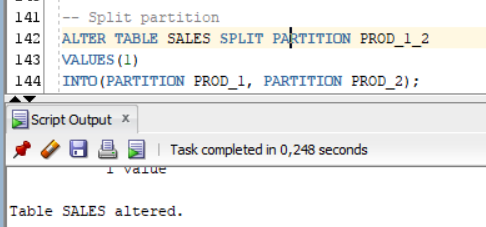


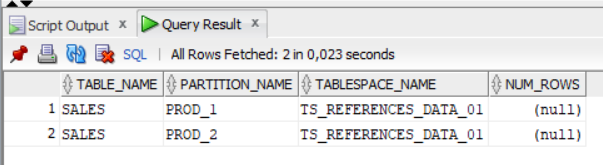
Moving partition to another tablespace:



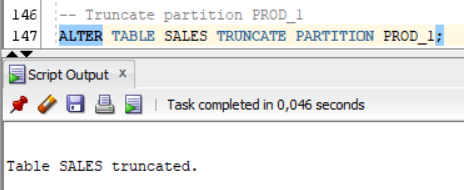


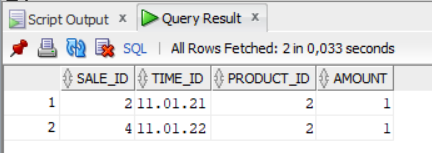
Splitting partition PROD\_1\_2 into PROD\_1 and PROD\_2:



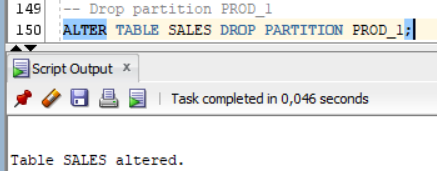


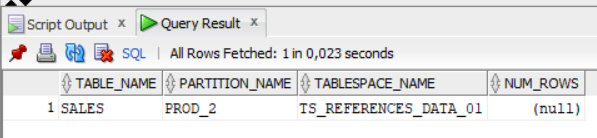
Truncating partition PROD\_1:



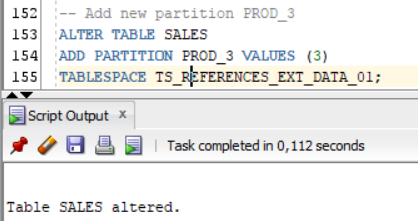


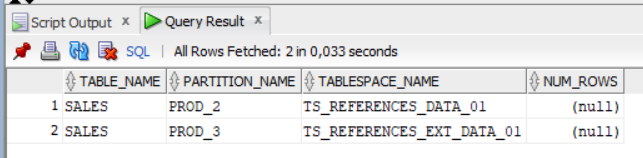
Dropping partition PROD\_1:





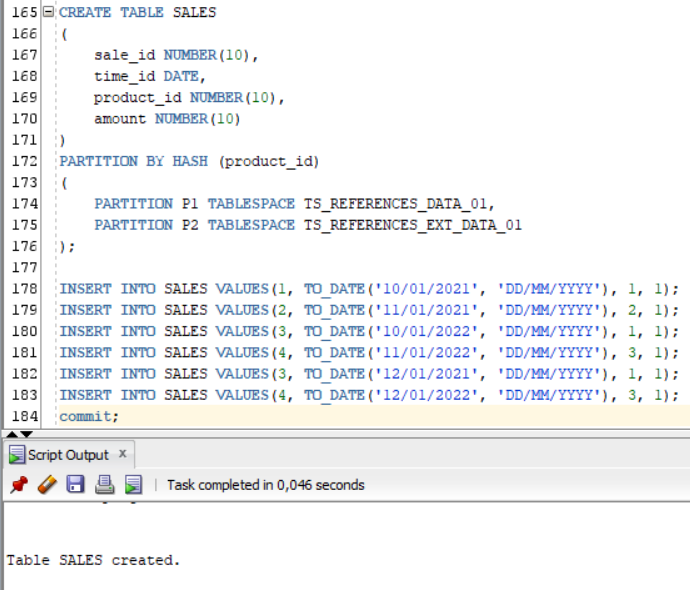
Adding new partition PROD\_3:

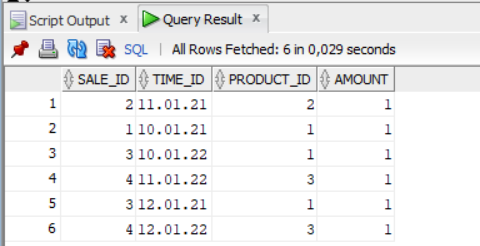


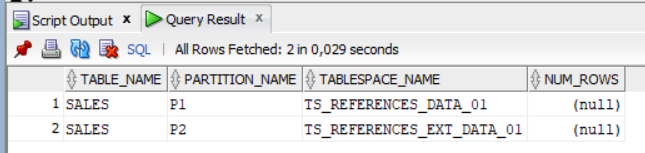


**Hash partitioning**

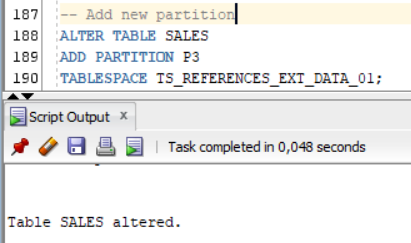
Creating table SALES and inserting test data

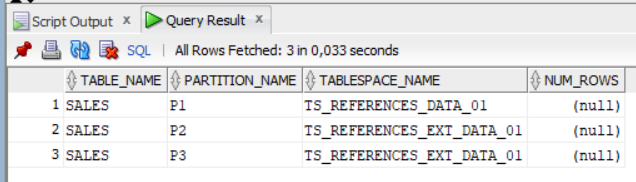


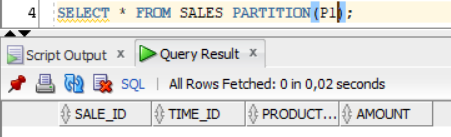


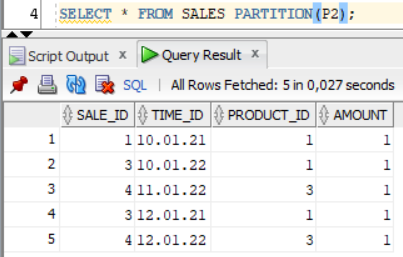


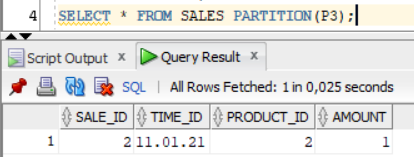
Adding new partition P3:





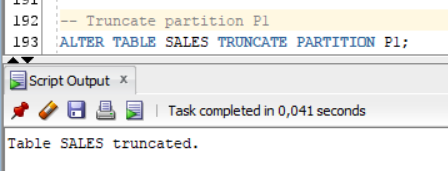




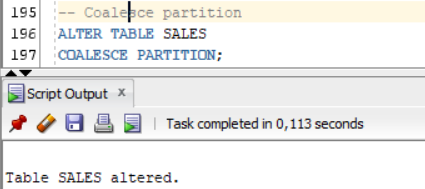


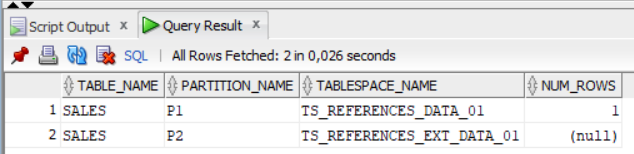
As we see, after we add new partition oracle relocated rows between all partitions.

Truncating partition P1 (it’s already empty, but I should to show this operation)



Coalescing partitions:

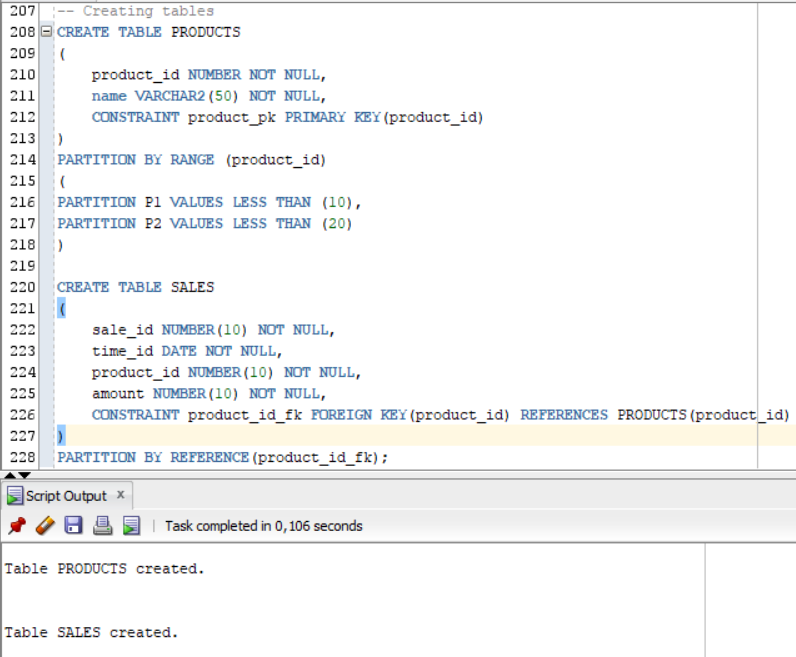


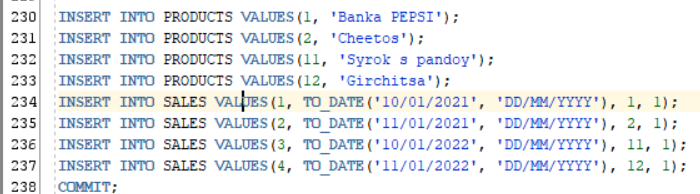


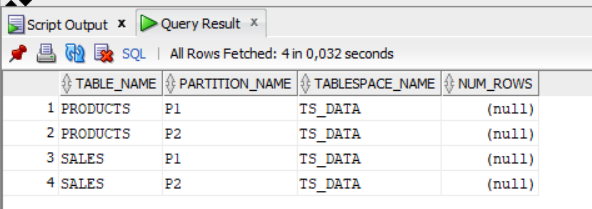
As we see, oracle reduced the number of partitions.

**Reference partitioning**

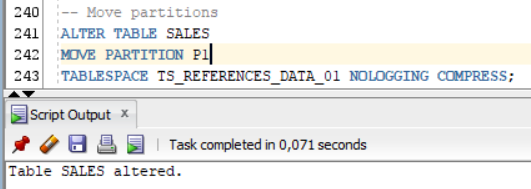
Creating tables

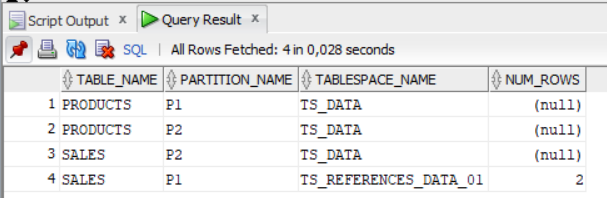




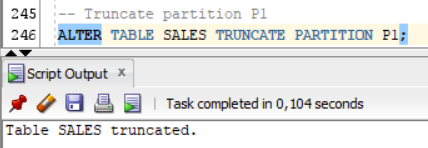


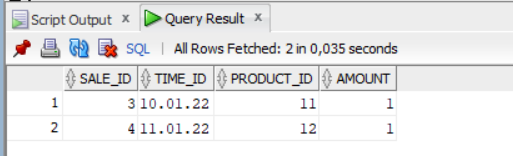
Moving partition P1 to another tablespace:





Truncating partition

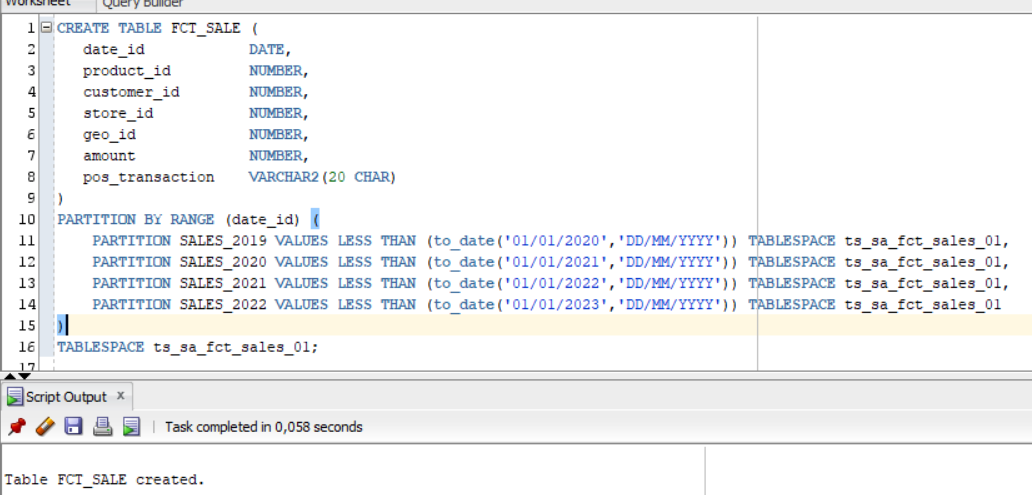




**Task 2**

**Fact Partitioning**

According to our single fact table FCT\_SALES, we can create range partitioning by year. In my opinion, that’s action can optimize queries which include the year conditions.

**

**Conclusion**

At this task I got basic knowledges about partitioning in Oracle. Partitioning allows database objects to be subdivided into smaller partitions.