RDS SQL Server 2019 - 15.00.4382.1.v1

Instance class: **db.m6i.xlarge (go to r instance type)**

Storage type: **Provisioned IOPS SSD (io1)**

Disk Space: 500 GB

Database with Non-Partition , Hash Partition, Range Partition table are on different instance.

Table B\_MASTER\_REPOSITORY\_IEM Record count: 55,941,550 (105 GB)

Table has 2 large REPOSITORY\_ID contains 16 million records each.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Query** | **PartitionType** | **LogicalRead** | **CPUTime(ms** | **ElapesdTime(ms)** |
| Group All REPOSITORY\_ID Count | Non-Ptt | 210,430 | 12,016 | 3,327 |
| Group All REPOSITORY\_ID Count | **Hash-Ptt** | 214,788 | 10,140 | 10,368 |
| Group All REPOSITORY\_ID Count | **Rang-Ptt** | 208,926 | 8,905 | 6,491 |
| Select One REPOSITORY Count | Non-Ptt | 64,050 | 4,048 | 1,116 |
| Select One REPOSITORY Count | **Hash-Ptt** | 64,677 | 2,110 | 2,103 |
| Select One REPOSITORY Count | **Rang-Ptt** | 63,979 | 4,250 | 1,212 |
| **Update** Rows for One REPOSITORY | Non-Ptt | 10,677,103 | 128,422 | 1,736,020 |
| **Update** Rows for One REPOSITORY | **Hash-Ptt** | 3,526,391 | 87,594 | 1,226,344 |
| **Update** Rows for One REPOSITORY | **Rang-Ptt** | 3,787,490 | 91,546 | 1,037,097 |