Advanced SQL Tuning

WEEK 08

Database Administration
FEAA | SDBIS-SIA MASTER

Contents

Week 8 – Advanced SQL Tuning

Last week we learnt about SQL tuning techniques. Now it's time to move forward and dig into more advanced methods of tuning various SQL statements.

Prepare VM

As usual, ensure that you're working on the "week2" snapshot, where Oracle is already installed.

```
[root@orasrv ~]# week2.sh
```

Challenge

- Get used with the tuning methodology: query selectivity, measure, improve, asses the tuning impact

SQL Joins:

- Type of JOINs
- Join algorithms
- Examples

Tuning JOINs

- Indexing the join columns
- Bitmap join indexes
- Materialized views

Hands-on Practice

- Tune a join using MViews

Other tuning techniques

- IOTs
- Hash Clusters

Extra Reading

- On FEAA portal: W07_optimizare_sql_ro.pdf