



AALOK INSTITUTE



Oracle Database 12c: Performance Tuning

Duration: 40Hrs (8 Hours per Day * 5 Days)

Course Topics

Day 1

- Tuning Tools
- Tracing (SQL Trace/Autotrace)
- Different methods to run an explain plan
- Identifying Problem SQL Statements
- Execution plan Interpretation
- Influencing the Optimizer
- Statistics

Day 2

- Hints
- Plan Stability(Stored Outlines/SQL Profiles/SQL Baseline)
- SQL Tuning Sets
- Transporting Stats/STS/Outline/SQL Profiles From One DB to Other DB
- SQL Tuning Advisory

Head Office :No. 602, 6th Floor, G Square Business Park, Plot No-25 & 26, Sector No-30, Landmark Opposite Sanpada Station, Vashi, Navi Mumbai – 400705.

Branch Office :New YashAshoka, BasementOffice, NearBorivali Bus Stop, Landmark- Mangala Hindi High School Kopri, Thane (East) – 400603
Tel.: +022-4131 8291 | +022-4923 8291 **Mobile/Whatsapp** :+91 86550 15955

Email: training@aalokinstitute.com | **Website:** www.aalokinstitute.com



AALOK INSTITUTE



- **Using SQL Performance Analyzer**
- **SQL Plan Management**
- **Tuning the Shared Pool**
- **Tuning the Buffer Cache**

Day 3

- **Tuning PGA and Temporary Space**
- **Automatic Memory Management**
- **Tuning Segment Space Usage**
- **Tuning I/O**
- **Using Automatic Workload Repository**
- **Defining Problems**
- **Using AWR Baselines**
- **Using AWR Based Tools**
- **Interpreting AWR/ASH/ADDM/Trace Reports.**
- **Enhancement of AWR/ADDM/ASH/SPM**

Day 4

- **What is your objective when tuning a query?**

Head Office :No. 602, 6th Floor, G Square Business Park, Plot No-25 & 26, Sector No-30, Landmark Opposite Sanpada Station, Vashi, Navi Mumbai – 400705.

Branch Office :New YashAshoka, Basement Office, Near Borivali Bus Stop, Landmark- Mangala Hindi High School Kopri, Thane (East) – 400603
Tel.: +022-4131 8291 | +022-4923 8291 **Mobile/Whatsapp** :+91 86550 15955

Email: training@aalokinstitute.com | **Website:** www.aalokinstitute.com



AALOK INSTITUTE



- **In-depth analysis of Statspack**
- **How to troubleshoot when we can't use AWR/ADDM because the customer is not licensed.**
- **In-depth analysis of explain plan with real time plans and issues**
- **How do you determine if the explain plan you are reading is good or bad?**
- **Tune database using initialization parameters**
- **Use and impact of histograms in query tuning**

Day 5

- **Adaptive Query Optimization**
- **Adaptive Plans**
- **SQL Plan Directives**
- **Commonly Observed Wait Event and their resolutions**
- **RAC internode tuning like global waits**
- **Tracing (SQL Trace 10046/10053 Trace)**
- **Real cases study based performance tuning of 11g and 12c both**
- **Parallel query Execution plan Interpretation**

Head Office :No. 602, 6th Floor, G Square Business Park, Plot No-25 & 26, Sector No-30, Landmark Opposite Sanpada Station, Vashi, Navi Mumbai – 400705.

Branch Office :New YashAshoka, Basement Office, Near Borivali Bus Stop, Landmark- Mangala Hindi High School Kopri, Thane (East) – 400603
Tel.: +022-4131 8291 | +022-4923 8291 **Mobile/Whatsapp** :+91 86550 15955

Email: training@aalokinstitute.com | **Website:** www.aalokinstitute.com



AALOK INSTITUTE



- **Table and Index Partition**
- **Identifying on which column to create index**
- **B-tree and Bitmap Index Usage**
- **Materialized View and Materialized View Log**
- **Partitioned Table query Execution plan Interpretation**
- **Deep Dive on OS Commands/OS Watcher/Other Tools To Monitor PT**

For Any Clarification please feel free to contact @ +91 9867328291.

Cheers,
Ambasa S. Ladwa
Ph# +91 9867328291

