

## Parameters Influence SQL Response

- ❖ SHARED\_POOL\_SIZE = 400M+
- ❖ LOG\_BUFFER=512K+
- ❖ DB\_BLOCK\_SIZE=8K
- ❖ DB\_CACHE\_SIZE=700M
- ❖ DB\_16K\_CACHE\_SIZE=300M
- ❖ CURSOR\_SHARING=EXACT / SIMILAR / FORCE
- ❖ SGA\_MAX\_SIZE = 1200M

## Parameters Affecting SQL

- ❖ Oracle 10G defaults to ALL\_ROWS
- ❖ Performance problems caused by assigning 100 (Default 0) to OPTIMIZER\_INDEX\_CACHING or OPTIMIZER\_INDEX\_COST\_ADJ
  - Usually change OPTIMIZER\_INDEX\_COST\_ADJ only
  - I have found that the parameter does not improve Execution Plans unless set to 10 or lower
- ❖ HASH\_JOIN\_ENABLED=TRUE
- ❖ PGA\_AGGREGATE\_TARGET=1000M
- ❖ WORKAREA\_SIZE\_POLICY=AUTO
- ❖ DB\_FILE\_MULTIBLOCK\_READ\_COUNT=16
- ❖ OPTIMIZER\_FEATURES\_ENABLE=10.2.0
- ❖ STAR\_TRANSFORMATION\_ENABLED
- ❖ QUERY\_REWRITE\_ENABLED
- ❖ OPTIMIZER\_DYNAMIC\_SAMPLING (0 through to 10)
- ❖ OPTIMIZER\_MODE
  - CHOOSE and RULE not available with 10G
  - ALL\_ROWS (Default)
  - FIRST\_ROWS
  - FIRST\_ROWS\_n (1, 10, 100 or 1000)
- ❖ OPEN\_CURSORS=5000