

## PLAGIARISM SCAN REPORT

Words	566	Date	October 08,2018
Characters	3573	Exclude Url	
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Category 1: SQL Optimization in 18C Developers Features 1.Use of Private Temporary tables: In previous versions of oracle, we have implemented the use of global temporary tables. But in this new version of oracle has implemented a new concept of temporary tables. The temporary tables are tables which are dropped after the session is closed. The temporary tables improve the performance of PL SQL codes as it deleted after the session is closed. Means those tables are not created physically in the database. Private temporary tables are the newly created temporary objects of database that are automatically dropped at the end of a transaction or a session. Syntax for Private temporary tables: CREATE PRIVATE TEMPORARY TABLE Tablename (Column name1 datatype(size),... Column name'n' datatype(size) ) ON COMMIT DROP DEFINITION ON COMMIT DELETE ROWS; Real life example: If user want to create temporary table named Employee1 after deleting rows of Employee table then following statement is used. These kinds of scenarios are used CREATE PRIVATE TEMPORARY TABLE Employee1 (EMP NO Number(10), EMP NAME Varchar2(30)) ON COMMIT PRESERVE DEFINITION ON COMMIT DELETE ROWS AS SELECT \* FROM Employee; With using the Private temporary tables user can improve the performance of the SQL Query. 2. Approximate Query Processing for Top'N' Function: In previous version the approximate query feature is implemented. Instead of using the TopN function if user uses the APPROX SUM and APPROX COUNT function with use of APPROX\_RANK function then it will improve the query performance. I would like to give you reason behind the same. If user is using TopN function then the data is being sorted and that sorting is implemented differently. 3.Brand New In-Built Package for Maintaining the SQL Tuning Sets: Previously we are using the DBMS SQLTUNE package to perform all the operations on SQL tuning set operations. Now In Oracle 18c new package named DBMS SQLSET has been implemented so that all the create, modify and drop actions can be performed fast. DBMS SQLSET package has implemented the SQL tuning set operations performance. 4. Sequence index implementation: In oracle 18c new scalable sequence is implemented. With using that scalable sequence user can load the data into tables as per the sequence values which are further used as keys in table. 5.Enhancements in SQL Tuning Advisory: Previous version oracle not uses the Exadata for SQL Tuning Advisory. In this new version of oracle, it is directly giving the best result and it also recommends an Exadata-aware SQL profile. Category 2: SQL Optimization in 18C DBA Features: 1.Setting Up the PGA Limit Before Processing the Query: User can now set the absolute limit for setting up the PGA so that PGA memory can be used by each session in particular consumer group in Oracle. 2.MEMOPTIMIZE FOR READ Clause for Internet of Things(IOT) Applications: In Oracle 18c the new clause is implemented named 'MEMOPTIMIZE FOR READ' clause which is used for high performance reads from the table. This clause is most useful in IOT like applications or IOT robots to perform high performance read. 3. Automatic AWR Reports for Different Environments: The AWR reports will show you why the guery is running with slow manner. In Oracle 18c user can capture the AWR data for multi-tenant environment as well as Stand by databases. 4.Data Dependent Caching: The data dependent caching techniques are implemented in oracle 18c. The Oracle 18c supports the service specific data cache which will improve the data access time for the services.

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