Cheatography

Oracle Materialized View Cheat Sheet

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Materialized View

Simplest way to replicate data between sites or transform data format

grant CREATE MATERIALIZED VIEW system privilege

grant CREATE TABLE or CREATE ANY TABLE system privilege

Syntax

CREATE MATERIALIZED VIEW view-name

BUILD [IMMEDIATE | DEFERRED] or ON PREBUILT TABLE	affect 1st populate data
REFRESH [FAST | COMPLETE | FORCE]	fast need logs present, complete truncate the table
ON [COMMIT | DEMAND]	commit rely on source data change;

[[ENABLE | DISABLE] QUERY REWRITE]

AS SELECT ...;

Gether stats

```
exec DBMS_STATS.gather_table_stats(
        ownname => 'SCOTT',
        tabname => 'EMP_MV');
```

Create Materialized View Log

```
CREATE MATERIALIZED VIEW LOG
ON scott.emp
TABLESPACE users
WITH PRIMARY KEY
INCLUDING NEW VALUES;
```

used for fast refresh

Refresh Materialized Views

```
--only when ON DEMAND is used
EXEC DBMS_M VIE W.r efr esh ('E MP_ MV');
--regular refresh with oracle scheduler
using oracle scheduler call DBMS_M VIE W.r efresh
--regular refresh with dbms_r efresh package
use dbms_r efr esh.make then add
BEGIN
      DBM S_R EFR ESH.make(
         name => 'SCOTT.MI NUT E_R EFR ESH',
         list => '',
          nex t_date => SYSDATE,
          int erval => '/1:Mins/ SYSDATE +
1/(60* 24)',);
END;
BEGIN
      DBM S_R EFR ESH.add(
         name => 'SCOTT.MI NUT E_R EFR ESH',
         list => 'SCOTT.EM P_MV',
         lax => TRUE);
END;
```

Considerations

populate and refresh MV add additional loads

if not regular refreshed, MV logs are not necessary

fast refreshes may not be possible, due to Oracle version and the complexity of the associated query

QUERY_REWRITE_INTEGRITY and QUERY_REWRITE_ENABLED parameter need to be set for query rewrite

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