

### 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]     affect 1st populate data  
or ON PREBUILT TABLE

REFRESH [FAST | COMPLETE |     fast need logs present,  
FORCE ]                            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_MVIEW.refresh('EMP_MV');
--regular refresh with oracle scheduler
using oracle scheduler call DBMS_MVIEW.refresh
--regular refresh with dbms_refresh package
use dbms_refresh.make then add
BEGIN
    DBMS_REFRESH.make(
        name => 'SCOTT.MINUTE_REFRESH',
        list => '',
        next_date => SYSDATE,
        interval => '/1:mins/ SYSDATE + 1/(60*24)',);
END;
BEGIN
    DBMS_REFRESH.add(
        name => 'SCOTT.MINUTE_REFRESH',
        list => 'SCOTT.EMP_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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