Q.1)

SQL> CREATE MATERIALIZED VIEW emp\_mv

2 BUILD IMMEDIATE

3 REFRESH FORCE

4 ON DEMAND

5 AS SELECT \* FROM emp;

Materialized view created.

Q.2)

SQL> BEGIN

2 DBMS\_STATS.gather\_table\_stats(

3 ownname => 'SCOTT',

4 tabname => 'EMP\_MV');

5 END;

6 /

PL/SQL procedure successfully completed.

Q.3)

SQL> CREATE MATERIALIZED VIEW LOG ON scott.emp

2 TABLESPACE users

3 WITH PRIMARY KEY

4 INCLUDING NEW VALUES;

Materialized view log created.

Q.4)

SQL> BEGIN

2 DBMS\_REFRESH.make(

3 name => 'SCOTT.MINUTE\_REFRESH',

4 list => '',

5 next\_date => SYSDATE,

6 interval => '/\*1:Mins\*/ SYSDATE + 1/(60\*24)',

7 implicit\_destroy => FALSE,

8 lax => FALSE,

9 job => 0,

10 rollback\_seg => NULL,

11 push\_deferred\_rpc => TRUE,

12 refresh\_after\_errors => TRUE,

13 purge\_option => NULL,

14 parallelism => NULL,

15 heap\_size => NULL);

16 END;

17 /

PL/SQL procedure successfully completed.

SQL> BEGIN

2 DBMS\_REFRESH.add(

3 name => 'SCOTT.MINUTE\_REFRESH',

4 list => 'SCOTT.EMP\_MV1',

5 lax => TRUE);

6 END;

7 /

PL/SQL procedure successfully completed.

SQL> EXEC DBMS\_MVIEW.refresh('EMP\_MV');

PL/SQL procedure successfully completed.

Q.5)

SQL> DROP MATERIALIZED VIEW emp\_mv;

Materialized view dropped.

SQL> DROP MATERIALIZED VIEW LOG ON scott.emp;

Materialized view log dropped.

Q.6)

SQL> SET AUTOTRACE TRACE EXPLAIN

SQL> SELECT deptno, SUM(sal)

2 FROM emp

3 GROUP BY deptno;

Execution Plan

----------------------------------------------------------

Plan hash value: 4067220884

---------------------------------------------------------------------------

| Id | Operation | Name | Rows | Bytes | Cost (%CPU)| Time |

---------------------------------------------------------------------------

| 0 | SELECT STATEMENT | | 3 | 21 | 4 (25)| 00:00:01 |

| 1 | HASH GROUP BY | | 3 | 21 | 4 (25)| 00:00:01 |

| 2 | TABLE ACCESS FULL| EMP | 14 | 98 | 3 (0)| 00:00:01 |

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Q.7)

SQL> CREATE MATERIALIZED VIEW emp\_aggr\_mv

2 BUILD IMMEDIATE

3 REFRESH FORCE

4 ON DEMAND

5 ENABLE QUERY REWRITE

6 AS

7 SELECT deptno, SUM(sal) AS sal\_by\_dept

8 FROM emp

9 GROUP BY deptno;

Materialized view created.

SQL> EXEC DBMS\_STATS.gather\_table\_stats(USER, 'EMP\_AGGR\_MV');

PL/SQL procedure successfully completed.

Q.8)

SQL> SELECT deptno, SUM(sal)

2 FROM emp

3 GROUP BY deptno;

Execution Plan

----------------------------------------------------------

Plan hash value: 2456459487

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| Id | Operation | Name | Rows | Bytes | Cost (%CPU)| Time |

---------------------------------------------------------------------------------------------------------------------------------

| 0 | SELECT STATEMENT | | 3 | 21 | 3 (0)| 00:00:01 |

| 1 | MAT\_VIEW REWRITE ACCESS FULL| EMP\_AGGR\_MV | 3 | 21 | 3 (0)| 00:00:01 |

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