

Spool File For Oracle Students Prepared By Mr.Balram

```
SQL> CREATE TABLE MYBONUS    --Target Table
  2  (
  3  EMPNO NUMBER,
  4  BONUS NUMBER DEFAULT 100
  5  );
```

Table created.

```
SQL> SELECT E.EMPNO
  2  FROM EMP E
  3  WHERE JOB='SALESMAN';
```

EMPNO

7499
7521
7654
7844

```
SQL> INSERT INTO MYBONUS(EMPNO)    --On-The-Fly Insert
  2  (
  3  SELECT E.EMPNO
  4  FROM EMP E
  5  WHERE JOB='SALESMAN'
  6  );
```

4 rows created.

```
SQL> SELECT Empno, Ename, Sal, Deptno
  2  FROM Emp
  3  WHERE Deptno = 30;
```

EMPNO	ENAME	SAL	DEPTNO
7900	JAMES	950	30
7499	ALLEN	1600	30
7521	WARD	1250	30
7654	MARTIN	1250	30
7698	BLAKE	2850	30
7844	TURNER	1500	30

6 rows selected.

```
SQL> SELECT * FROM MYBONUS;
```

EMPNO	BONUS
7499	100
7521	100
7654	100
7844	100

```
SQL> MERGE INTO MYBONUS B
  2  USING (
```

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```
3      SELECT EMPNO,SAL,DEPTNO
4      FROM EMP
5      WHERE DEPTNO=30
6      ) S
7  ON (B.EMPNO=S.EMPNO)
8  WHEN MATCHED THEN
9  UPDATE
10 SET B.BONUS = B.BONUS + S.SAL * 0.1
11 DELETE
12 WHERE (S.SAL > 4000)
13 WHEN NOT MATCHED THEN
14 INSERT (B.EMPNO,B.BONUS)
15 VALUES(S.EMPNO, S.SAL * 0.1)
16 WHERE (S.SAL <= 4000);
```

6 rows merged.

```
SQL> SELECT * FROM MYBONUS;
```

EMPNO	BONUS
7499	260
7521	225
7654	225
7844	250
7698	285
7900	95

6 rows selected.

```
SQL> MERGE INTO MYBONUS B
2  USING (
3      SELECT EMPNO,SAL,DEPTNO
4      FROM EMP
5      WHERE DEPTNO=30
6      ) S
7  ON (B.EMPNO=S.EMPNO)
8  WHEN MATCHED THEN
9  UPDATE
10 SET B.BONUS = B.BONUS + S.SAL * 0.1
11 DELETE
12 WHERE (S.SAL > 4000)
13 WHEN NOT MATCHED THEN
14 INSERT (B.EMPNO,B.BONUS)
15 VALUES(S.EMPNO, S.SAL * 0.1)
16 WHERE (S.SAL <= 4000);
```

6 rows merged.

```
SQL> SELECT * FROM MYBONUS;
```

EMPNO	BONUS
7499	420

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```
7521      350
7654      350
7844      400
7698      570
7900      190
```

6 rows selected.

```
SQL> BEGIN
  2  INSERT INTO EMP (EMPNO, ENAME, DEPTNO, JOB, HIREDATE, SAL, COMM, MGR)
  3  VALUES (7935, 'RAVI', 30, 'SALESMAN', SYSDATE, 3750, 500, 7566);
  4
  5  INSERT INTO EMP (EMPNO, ENAME, DEPTNO, JOB, HIREDATE, SAL, COMM, MGR)
  6  VALUES (7936, 'RAJU', 30, 'SALESMAN', SYSDATE, 4250, 500, 7566);
  7
  8  INSERT INTO EMP (EMPNO, ENAME, DEPTNO, JOB, HIREDATE, SAL, COMM, MGR)
  9  VALUES (7937, 'RAMESH', 30, 'SALESMAN', SYSDATE, 3500, 500, 7566);
 10
 11  INSERT INTO EMP (EMPNO, ENAME, DEPTNO, JOB, HIREDATE, SAL, COMM, MGR)
 12  VALUES (7938, 'RAJESH', 30, 'SALESMAN', SYSDATE, 4500, 500, 7566);
 13  END;
 14  /
```

PL/SQL procedure successfully completed.

```
SQL> UPDATE EMP
  2  SET SAL = SAL + 2000
  3  WHERE EMPNO=7698;
```

1 row updated.

```
SQL>
SQL>
SQL> UPDATE EMP
  2  SET SAL = SAL + 2600
  3  WHERE EMPNO=7499;
```

1 row updated.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Deptno = 30;
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7900	JAMES	CLERK	950	30
7936	RAJU	SALESMAN	4250	30
7935	RAVI	SALESMAN	3750	30
7937	RAMESH	SALESMAN	3500	30
7938	RAJESH	SALESMAN	4500	30
7499	ALLEN	SALESMAN	4200	30
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	4850	30

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7844 TURNER SALESMAN 1500 30

10 rows selected.

```
SQL> MERGE INTO MYBONUS B
  2 USING (
  3       SELECT EMPNO,SAL,DEPTNO
  4       FROM EMP
  5       WHERE DEPTNO=30
  6       ) S
  7 ON (B.EMPNO=S.EMPNO)
  8 WHEN MATCHED THEN
  9 UPDATE
 10 SET B.BONUS = B.BONUS + S.SAL * 0.1
 11 DELETE
 12 WHERE (S.SAL > 4000)
 13 WHEN NOT MATCHED THEN
 14 INSERT (B.EMPNO,B.BONUS)
 15 VALUES(S.EMPNO, S.SAL * 0.1)
 16 WHERE (S.SAL <= 4000);
```

8 rows merged.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3 WHERE Deptno = 30;
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7900	JAMES	CLERK	950	30
7936	RAJU	SALESMAN	4250	30
7935	RAVI	SALESMAN	3750	30
7937	RAMESH	SALESMAN	3500	30
7938	RAJESH	SALESMAN	4500	30
7499	ALLEN	SALESMAN	4200	30
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	4850	30
7844	TURNER	SALESMAN	1500	30

10 rows selected.

```
SQL> SELECT * FROM MYBONUS;
```

EMPNO	BONUS
7521	475
7654	475
7844	550
7900	285
7935	375
7937	350

6 rows selected.

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SQL> CL SCR

```
SQL> CREATE TABLE EXAMTIMETABLE
  2  (
  3    EXAMNAME VARCHAR2(30),
  4    EXAMTIME VARCHAR2(12),
  5    CONSTRAINT EXAMNAMEPK PRIMARY KEY(EXAMNAME)
  6  );
```

Table created.

```
SQL> INSERT INTO EXAMTIMETABLE
  2  VALUES('PHYSICAL SCIENCES','9:00 AM');
```

1 row created.

```
SQL> MERGE INTO EXAMTIMETABLE E1
  2  USING EXAMTIMETABLE E2
  3  ON
  4  (
  5    E2.EXAMNAME=E1.EXAMNAME AND
  6    E1.EXAMNAME='PHYSICAL SCIENCES'
  7  )
  8  WHEN MATCHED THEN
  9    UPDATE
 10    SET E1.EXAMTIME='10:30 AM'
 11  WHEN NOT MATCHED THEN
 12    INSERT (E1.EXAMNAME,E1.EXAMTIME)
 13    VALUES('PHYSICAL SCIENCES','10:30 AM');
```

1 row merged.

```
SQL> SELECT * FROM EXAMTIMETABLE;
```

EXAMNAME	EXAMTIME
PHYSICAL SCIENCES	10:30 AM

```
SQL> MERGE INTO EXAMTIMETABLE E1
  2  USING EXAMTIMETABLE E2
  3  ON
  4  (
  5    E2.EXAMNAME=E1.EXAMNAME AND
  6    E1.EXAMNAME='CHEMICAL SCIENCES'
  7  )
  8  WHEN MATCHED THEN
  9    UPDATE
 10    SET E1.EXAMTIME='12:30 PM'
 11  WHEN NOT MATCHED THEN
 12    INSERT (E1.EXAMNAME,E1.EXAMTIME)
 13    VALUES('CHEMICAL SCIENCES','12:30 PM');
```

1 row merged.

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```
SQL> SELECT * FROM EXAMTIMETABLE;
```

EXAMNAME	EXAMTIME
PHYSICAL SCIENCES	10:30 AM
CHEMICAL SCIENCES	12:30 PM

```
SQL> CREATE TABLE MYBONUS
```

```
2  (  
3  EMPNO NUMBER,  
4  ENAME VARCHAR2(20),  
5  JOB   VARCHAR2(20),  
6  DNAME VARCHAR2(16),  
7  LOC   VARCHAR2(16),  
8  GROSS NUMBER,  
9  GRADE NUMBER,  
10 BONUS NUMBER DEFAULT 100  
11 );
```

```
CREATE TABLE MYBONUS
```

```
*
```

```
ERROR at line 1:
```

```
ORA-00955: name is already used by an existing object
```

```
SQL> DROP TABLE MYBONUS PURGE;
```

Table dropped.

```
SQL> CREATE TABLE MYBONUS
```

```
2  (  
3  EMPNO NUMBER,  
4  ENAME VARCHAR2(20),  
5  JOB   VARCHAR2(20),  
6  DNAME VARCHAR2(16),  
7  LOC   VARCHAR2(16),  
8  GROSS NUMBER,  
9  GRADE NUMBER,  
10 BONUS NUMBER DEFAULT 100  
11 );
```

Table created.

```
SQL> INSERT INTO MYBONUS(EMPNO,ENAME, JOB, DNAME, LOC, GROSS, GRADE) --
```

```
On-The Fly Insert
```

```
2  (  
3  SELECT  
4  E.EMPNO,  
5  E.ENAME,  
6  E.JOB,  
7  D.DNAME,  
8  D.LOC,  
9  E.SAL + NVL(COMM,0)  GROSS,  
10 S.GRADE
```

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```
11 FROM EMP E, DEPT D, SALGRADE S
12 WHERE E.DEPTNO = D.DEPTNO AND
13 E.SAL BETWEEN S.LOSAL AND S.HISAL AND
14 E.DEPTNO=30 AND E.JOB = 'SALESMAN'
15 );
```

8 rows created.

SQL> SELECT * FROM MYBONUS;

EMPNO	ENAME	JOB	DNAME	LOC	GROSS
7936	RAJU	SALESMAN	SALES	CHICAGO	4750
5	100				
7935	RAVI	SALESMAN	SALES	CHICAGO	4250
5	100				
7937	RAMESH	SALESMAN	SALES	CHICAGO	4000
5	100				

EMPNO	ENAME	JOB	DNAME	LOC	GROSS
7938	RAJESH	SALESMAN	SALES	CHICAGO	5000
5	100				
7499	ALLEN	SALESMAN	SALES	CHICAGO	4500
5	100				
7521	WARD	SALESMAN	SALES	CHICAGO	1750
2	100				

EMPNO	ENAME	JOB	DNAME	LOC	GROSS

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```
7654 MARTIN SALESMAN    SALES                CHICAGO                2650
2
      100
```

```
7844 TURNER SALESMAN    SALES                CHICAGO                1500
3
      100
```

8 rows selected.

```
SQL> COL DNAME FORMAT A10
SQL> COL LOC FORMAT A10
SQL> COL GROSS FORMAT 99999
SQL> COL GRADE FORMAT 99
SQL> R
      1* SELECT * FROM MYBONUS
```

EMPNO	ENAME	JOB	DNAME	LOC	GROSS	GRADE	BONUS
7936	RAJU	SALESMAN	SALES	CHICAGO	4750	5	100
7935	RAVI	SALESMAN	SALES	CHICAGO	4250	5	100
7937	RAMESH	SALESMAN	SALES	CHICAGO	4000	5	100
7938	RAJESH	SALESMAN	SALES	CHICAGO	5000	5	100
7499	ALLEN	SALESMAN	SALES	CHICAGO	4500	5	100
7521	WARD	SALESMAN	SALES	CHICAGO	1750	2	100
7654	MARTIN	SALESMAN	SALES	CHICAGO	2650	2	100
7844	TURNER	SALESMAN	SALES	CHICAGO	1500	3	100

8 rows selected.

```
SQL> MERGE INTO MYBONUS B
2 USING (
3     SELECT
4     E.EMPNO,
5     E.ENAME,
6     E.JOB,
7     E.SAL,
8     E.SAL + NVL(COMM,0) GROSS,
9     D.DEPTNO,
10    D.DNAME,
11    D.LOC,
12    S.GRADE
13    FROM EMP E, DEPT D, SALGRADE S
14    WHERE E.DEPTNO = D.DEPTNO AND
15    E.SAL BETWEEN S.LOSAL AND S.HISAL AND
16    E.DEPTNO=30
17    ) S
18 ON
19 (B.EMPNO=S.EMPNO)
20 WHEN MATCHED THEN
21 UPDATE
22 SET B.BONUS = B.BONUS + S.SAL * 0.1,
23     B.ENAME = S.ENAME,
```


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```
24      B.JOB      = S.JOB,
25      B.DNAME    = S.DNAME,
26      B.LOC      = S.LOC,
27      B.GROSS    = S.GROSS,
28      B.GRADE    = S.GRADE
29  DELETE
30  WHERE (S.SAL > 4000)
31  WHEN NOT MATCHED THEN
32  INSERT (B.EMPNO,B.ENAME, B.JOB, B.DNAME, B.LOC, B.GROSS,
B.GRADE,B.BONUS)
33  VALUES (S.EMPNO, S.ENAME, S.JOB, S.DNAME, S.LOC, S.GROSS, S.GRADE,
S.SAL * 0.1)
34  WHERE (S.SAL <= 4000);
```

9 rows merged.

SQL> SPOOL OFF