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SQL>
SQL> /* =====
SQL> Name - Hay Munn Hnin Wai
SQL> UOW ID - 6573277
SQL> Assignment 2 - Task 1
SQL> =====*/
SQL>
SQL> Create or Replace Procedure EmpMec(eNum IN NUMBER,
2          eName IN VARCHAR2,
3          DOB IN DATE,
4          addr IN VARCHAR2,
5          hDate IN DATE,
6          DL#ML# IN NUMBER,          -- Either Driver or Mechanice
L#
7          status IN VARCHAR2,
8          totaltrip IN NUMBER,
9          expe IN VARCHAR2) IS
10
11  aE# Mechanic.E#%TYPE;
12  errorNum Number(5);
13  errorMessage VARCHAR2(200);
14
15  BEGIN
16      INSERT INTO TRKEMPLOYEE VALUES (eNum, eName, TO_DATE(DOB,'DD-MON-YYYY'),
addr, hDate);
17
18      --if Experience is Null, then it is "DRIVER"
19  If expe IS NULL THEN --Driver!!
20      BEGIN
21          --Check if the DL# Found in Mechanic Table!
22          SELECT E#
23          INTO aE#
24          FROM Mechanic
25          Where L# = DL#ML#;  --(If inserted L# is Driver.L#, then display logic
error).
26          DBMS_OUTPUT.PUT_LINE('Attempted to Insert this Mechanic as a "DRIVER":
Conflction L# is Found In Mechanic Table');
27          ROLLBACK;      -- Remove whatever just inserted!
28      EXCEPTION
29          WHEN NO_DATA_FOUND THEN
30              INSERT INTO DRIVER VALUES(eNum,DL#ML#,status,totaltrip);
31              COMMIT;
32          WHEN OTHERS THEN  --Whatever error that DBMS detected, then return this
error message!
33              errorNum := SQLCODE;
34              errorMessage := SQLERRM;
35              DBMS_OUTPUT.PUT_LINE('Error in EmpMec:');
36              DBMS_OUTPUT.PUT_LINE(rpad(errorNum,7)|| ';' || errorMessage);
37          ROLLBACK;
38      END;
39
40  ELSE --Mechanic!!
41      BEGIN
42          --Check if the ML# found in DriverTable
43          SELECT E#
44          INTO aE#
45          FROM Driver
46          Where L# = DL#ML#;  --(If inserted L# is Mechanic.L#, then display logic
error).

```

```

47      DBMS_OUTPUT.PUT_LINE('Attempted to Insert this Driver as a "Mechanic":
Confliction L# is Found In Driver Table');
48      ROLLBACK;      -- Remove whatever just inserted!
49      EXCEPTION
50      WHEN NO_DATA_FOUND THEN
51          INSERT INTO Mechanic VALUES(eNum,DL#ML#,status,expe);
52          COMMIT;
53      WHEN OTHERS THEN  --Whatever error that DBMS detected, then return this
error message!
54          errorNum := SQLCODE;
55          errorMessage := SQLERRM;
56          DBMS_OUTPUT.PUT_LINE('Error in EmpMec: ');
57          DBMS_OUTPUT.PUT_LINE(rpad(errorNum,7)|| ';' || errorMessage);
58      ROLLBACK;
59
60      END;
61  END IF;
62
63  EXCEPTION
64  WHEN OTHERS THEN  --Whatever error that DBMS detected, then return this error
message!
65      errorNum := SQLCODE;
66      errorMessage := SQLERRM;
67      DBMS_OUTPUT.PUT_LINE('Error in EmpMec:');
68      DBMS_OUTPUT.PUT_LINE(rpad(errorNum,7)|| ';' || errorMessage);
69      ROLLBACK;
70  END EmpMec;
71  /

```

Procedure created.

SQL> show errors;

No errors.

SQL>

SQL> --Execute Statements

SQL> Execute EmpMec(16, 'John', '6-SEP-1990', 'BukitPanjang, 403', sysdate-
(1.8*365), 12345, 'AVAILABLE', 20, null);

PL/SQL procedure successfully completed.

SQL>

SQL> execute EmpMec(17, 'TingTing', '11-May-1985', 'Kinstead Town, KIN20', sysdate-
(1.6*365), 12345, 'BUSY', null, 'STANDARD');

Attempted to Insert this Driver as a "Mechanic": Confliction L# is Found In
Driver Table

PL/SQL procedure successfully completed.

SQL>

SQL> ----

SQL> Select * from TRKEMPLOYEE;

E#	NAME	DOB

ADDRESS		

HIREDATE		

1	John Smith	

42 Victoria St. Hurstville, NSW 2456
01-APR-20

2 Peter Taylor
42 Victoria St. Hurstville, NSW 2456
01-APR-20

12-JAN-60

E# NAME

DOB

ADDRESS

HIREDATE

3 John Doe
12 Station St. Dapto, NSW 2530
20-JAN-20

23-MAR-56

4 John Gray
16 Station St. Dapto, NSW 2530

05-MAY-78

E# NAME

DOB

ADDRESS

HIREDATE

13-FEB-20

5 Adam Taylor
42 Church St. City, NSW 2300
29-DEC-19

01-JAN-70

6 Michael Jones

05-OCT-65

E# NAME

DOB

ADDRESS

HIREDATE

23 Waterloo Ave. Surry Hills, NSW 2502
10-SEP-19

7 Frederic Jones
23 Victoria St. Redfern, NSW 2420
11-AUG-19

28-FEB-73

E# NAME

DOB

ADDRESS

HIREDATE

8 Peter O'Brien
19 Lucas Dr. Horsley, NSW 2530
01-APR-18

28-FEB-73

9 John Lucas
20 Huxley St. Horsley, NSW 2530
24-FEB-17

16-DEC-56

E#	NAME	DOB

ADDRESS		

HIREDATE		

10 John Fox
18 Victoria St. Hurstville, NSW 2456
25-AUG-19

25-OCT-65

11 Adam Fox
45 Victoria St. Hurstville, NSW 2456

04-MAY-70

E#	NAME	DOB

ADDRESS		

HIREDATE		

12 Phillip Cox
5 The Avenue, Rockdale, NSW 2300
04-APR-05

12-DEC-74

13 Andrew K. Smith

04-APR-59

E#	NAME	DOB

ADDRESS		

HIREDATE		

42 Bambaramba Ave. Pennant Hills, NSW 2556
06-NOV-18

14 Andrew R. Smith
67 King Cr. Hurstville, NSW 2456
18-JAN-19

01-APR-83

E#	NAME	DOB

ADDRESS		

HIREDATE		

15 Michael Potter
568 Bong Bong St. Horsley, NSW 2530
01-OCT-18

01-APR-85

16 John
BukitPanjang, 403
23-JUL-18

06-SEP-90

E#	NAME	DOB

ADDRESS		

HIREDATE		

16 rows selected.

SQL> Select * from driver;

E#	L#	STATUS	TOTALTRIPMADE

1	10001	AVAILABLE	29
3	10002	AVAILABLE	12
5	10003	ON LEAVE	20
7	20002	BUSY	19
9	30005	BUSY	19
11	20005	ON LEAVE	16
13	10008	ON LEAVE	
16	12345	AVAILABLE	20

8 rows selected.

SQL> Select * from mechanic;

E#	L#	STATUS	EXPERIENCE

2	10345	AVAILABLE	EXPERT
4	10452	AVAILABLE	STANDARD
6	7773	ON_LEAVE	STANDARD
8	23302	BUSY	BEGINNER
10	22205	BUSY	EXPERT
12	10005	AVAILABLE	BEGINNER
14	10000	AVAILABLE	BEGINNER

7 rows selected.

SQL> ----

SQL> spool off