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Nc3

SQL Worksheet

```

1 v DECLARE
2   v_fine NUMBER;
3   v_days_late NUMBER;
4 v BEGIN
5   SELECT (dor - doi) INTO v_days_late
6   FROM your_table
7   WHERE rno = 100;
8 v IF v_days_late < 7 THEN
9   v_fine := v_days_late * 1;
10 v ELSIF v_days_late >= 7 AND v_days_late < 14 THEN
11   v_fine := v_days_late * 2;
12 v ELSE
13   v_fine := v_days_late * 3;
14   END IF;
15 v UPDATE your_table
16   SET fine = v_fine
17   WHERE rno = 100;
18   COMMIT;
19 END;

```

SQL Worksheet

```

1 v DECLARE
2   v_total_age NUMBER;
3 v BEGIN
4   SELECT SUM(TRUNC(MONTHS_BETWEEN(SYSDATE, DOB) / 12)) INTO v_total_age
5   FROM emp
6   WHERE empno = 100;
7
8 v UPDATE emp
9   SET age = v_total_age
10  WHERE empno = 100;
11
12  COMMIT;
13 END;

```

SQL Worksheet

```
1 v DECLARE
2   v_num1 NUMBER := 10;
3   v_num2 NUMBER := 5;
4   v_operator VARCHAR2(1) := '*';
5   v_result NUMBER;
6 v BEGIN
7   CASE v_operator
8     WHEN '+' THEN
9       v_result := v_num1 + v_num2;
10 v   WHEN '-' THEN
11     v_result := v_num1 - v_num2;
12 v   WHEN '*' THEN
13     v_result := v_num1 * v_num2;
14 v   WHEN '/' THEN
15     v_result := v_num1 / v_num2;
16   END CASE;
17   DBMS_OUTPUT.PUT_LINE('Result: ' || v_result);
18 END;
```

SQL Worksheet

```
1 v DECLARE
2   v_n NUMBER := 10;
3 v BEGIN
4   FOR i IN 3..v_n LOOP
5     FOR j IN 1..10 LOOP
6       DBMS_OUTPUT.PUT_LINE(i || ' x ' || j || ' = ' || (i * j));
7     END LOOP;
8     DBMS_OUTPUT.PUT_LINE('');
9   END LOOP;
10 END;
```

SQL Worksheet

```
1 v DECLARE
2   v_start NUMBER := 5;
3   v_end   NUMBER := 20;
4 v BEGIN
5   FOR i IN v_start..v_end LOOP
6     DBMS_OUTPUT.PUT_LINE(i);
7   END LOOP;
8 END;
```

SQL Worksheet

```
1 v DECLARE
2   v_hour NUMBER;
3 v BEGIN
4   SELECT TO_NUMBER(TO_CHAR(SYSDATE, 'HH24')) INTO v_hour FROM DUAL;
5
6 v IF v_hour >= 0 AND v_hour < 12 THEN
7   DBMS_OUTPUT.PUT_LINE('Good Morning');
8 v ELSIF v_hour >= 12 AND v_hour < 18 THEN
9   DBMS_OUTPUT.PUT_LINE('Good Afternoon');
10 v ELSE
11   DBMS_OUTPUT.PUT_LINE('Good Night');
12 END IF;
13 END;
```

SQL Worksheet

```
1 v DECLARE
2   v_principal NUMBER := 1000;
3   v_time      NUMBER := 2;
4   v_rate      NUMBER;
5   v_interest  NUMBER;
6 v BEGIN
7   FOR v_rate IN 5..15 LOOP
8     v_interest := (v_principal * v_time * v_rate) / 100;
9     DBMS_OUTPUT.PUT_LINE('Principal: ' || v_principal || ', Time: ' || v_time || ' years, Rate: ' || v_rate || '%, Interest: ' || v_interest);
10  END LOOP;
11 END;
12 /
```

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Result: 50

.

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

$$3 \times 3 = 9$$

$$3 \times 4 = 12$$

$$3 \times 5 = 15$$

$$3 \times 6 = 18$$

$$3 \times 7 = 21$$

$$3 \times 8 = 24$$

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

$$5 \times 1 = 5$$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

$$5 \times 6 = 30$$

$$5 \times 7 = 35$$

$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

$$6 \times 1 = 6$$

$$6 \times 2 = 12$$

$$6 \times 3 = 18$$

$$6 \times 4 = 24$$

$$6 \times 5 = 30$$

$$6 \times 6 = 36$$

$$6 \times 7 = 42$$

$$6 \times 8 = 48$$

$$6 \times 9 = 54$$

$$6 \times 10 = 60$$

$$7 \times 1 = 7$$

$$7 \times 2 = 14$$

$$7 \times 3 = 21$$

$$7 \times 4 = 28$$

$$7 \times 5 = 35$$

$$7 \times 6 = 42$$

$$7 \times 7 = 49$$

$$7 \times 8 = 56$$

$$7 \times 9 = 63$$

$$7 \times 10 = 70$$

$$8 \times 1 = 8$$

$$8 \times 2 = 16$$

$$8 \times 3 = 24$$

$$8 \times 4 = 32$$

$$8 \times 5 = 40$$

$$8 \times 6 = 48$$

$$8 \times 7 = 56$$

$$8 \times 8 = 64$$

$$8 \times 9 = 72$$

$$8 \times 10 = 80$$

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9 \times 10 = 90$$

$$10 \times 1 = 10$$

$$10 \times 2 = 20$$

$$10 \times 3 = 30$$

$$10 \times 4 = 40$$

$$10 \times 5 = 50$$

$$10 \times 6 = 60$$

$$10 \times 7 = 70$$

$$10 \times 8 = 80$$

$$10 \times 9 = 90$$

$$10 \times 10 = 100$$

5
10
15
20

Good Morning

Principal: 1000, Time: 2 years, Rate: 5%, Interest: 100.0
Principal: 1000, Time: 2 years, Rate: 6%, Interest: 120.0
Principal: 1000, Time: 2 years, Rate: 7%, Interest: 140.0
Principal: 1000, Time: 2 years, Rate: 8%, Interest: 160.0
Principal: 1000, Time: 2 years, Rate: 9%, Interest: 180.0
Principal: 1000, Time: 2 years, Rate: 10%, Interest: 200.0
Principal: 1000, Time: 2 years, Rate: 11%, Interest: 220.0
Principal: 1000, Time: 2 years, Rate: 12%, Interest: 240.0
Principal: 1000, Time: 2 years, Rate: 13%, Interest: 260.0
Principal: 1000, Time: 2 years, Rate: 14%, Interest: 280.0
Principal: 1000, Time: 2 years, Rate: 15%, Interest: 300.0