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CSE-CC J2

DBMS EXP 10 : CURSORS

create table Electricity049 (Name varchar2(15), Prev_Reading number(5), Curr_Reading number(5));

INSERT INTO Electricity049 VALUES ('Shushrut Kumar', 2590, 5891); INSERT INTO Electricity049 VALUES ('Viren Parmar', 7555, 10210); INSERT INTO Electricity049 VALUES ('Vidhi Rai', 8190, 11203);

SQL> select * from Electricity049;			
NAME	PREV_READING	CURR_READING	
Shushrut Kumar Viren Parmar	2590 7555	5891 10210	
Vidhi Rai	8190	11203	

create table STUDENT049 (Name varchar(20), Maths number(3), Science number(3));

INSERT INTO STUDENT049 VALUES ('Shushrut Kumar', 79, 84);

INSERT INTO STUDENT049 VALUES ('Viren Parmar', 99, 88);

INSERT INTO STUDENT049 VALUES ('Sachin Tilokani', 34, 65);

INSERT INTO STUDENT049 VALUES ('Neel Thakar', 67, 55);

INSERT INTO STUDENT049 VALUES ('Param Shah', 49, 46);

SQL> select * from student049;				
MATHS	SCIENCE			
79	84			
99	88			
34	65			
67	55			
49	46			
	MATHS 			

1. CURSOR PROGRAM FOR ELECTRICITY BILL CALCULATION

set serveroutput on;

DECLARE

CURSOR bill

IS

SELECT * FROM Electricity049;

ROW ELECTRICITY ELECTRICITY049%ROWTYPE;

AMOUNT NUMBER(9,2);

BEGIN

OPEN bill;

LOOP

FETCH bill INTO ROW ELECTRICITY;

EXIT WHEN bill%NOTFOUND;

AMOUNT := (ROW ELECTRICITY.CURR READING -

ROW ELECTRICITY.PREV READING) * 5;

```
DBMS_OUTPUT_LINE('BILL FOR ' || ROW_ELECTRICITY.NAME || ' is Rs ' ||
AMOUNT);
END LOOP;
CLOSE bill;
END;
SQL> set serveroutput on;
SQL> DECLARE
 2 CURSOR bill
 4 SELECT * FROM Electricity049;
 5 ROW ELECTRICITY ELECTRICITY049%ROWTYPE;
 6 AMOUNT NUMBER(9,2);
  7 BEGIN
 8 OPEN bill;
 9 LOOP
 10 FETCH bill INTO ROW_ELECTRICITY;
 11 EXIT WHEN bill%NOTFOUND;
 12 AMOUNT := ( ROW_ELECTRICITY.CURR_READING - ROW_ELECTRICITY.PREV_READING ) * 5;
 13 DBMS_OUTPUT.PUT_LINE('BILL FOR ' || ROW_ELECTRICITY.NAME || ' is Rs ' || AMOUNT);
 14 END LOOP;
 15 CLOSE bill;
 16 END;
 17 /
BILL FOR Shushrut Kumar is Rs 16505
BILL FOR Viren Parmar is Rs 13275
BILL FOR Vidhi Rai is Rs 15065
```

2. CURSOR PROGRAM FOR STUDENT GRADE CALCULATION

```
set serveroutput on;
DECLARE
CURSOR grade
IS
SELECT * FROM STUDENT049;
STUDENT_ROW STUDENT049%ROWTYPE;
BEGIN
OPEN grade;
LOOP
FETCH grade INTO STUDENT_ROW;
EXIT WHEN grade%NOTFOUND;
```

```
IF (STUDENT ROW.MATHS + STUDENT ROW.SCIENCE) > 100 THEN
DBMS OUTPUT.PUT LINE(STUDENT ROW.NAME || ' has achieved grade PASS
with total marks = ' || (STUDENT ROW.MATHS + STUDENT ROW.SCIENCE));
ELSE
DBMS OUTPUT.PUT LINE(STUDENT ROW.NAME | ' has achieved grade FAIL
with total marks = ' || (STUDENT ROW.MATHS + STUDENT ROW.SCIENCE));
END IF;
END LOOP;
CLOSE grade;
END;
 GQL> set serveroutput on;
GQL> DECLARE
  2 CURSOR grade
3 IS
  3 IS
4 SELECT * FROM STUDENT049;
5 STUDENT_ROW STUDENT049%ROWTYPE;
  7 OPEN grade;
  9 FETCH grade INTO STUDENT_ROW;
 10 EXIT WHEN grade%NOTFOUND;
11 IF (STUDENT_ROW.MATHS + STUDENT_ROW.SCIENCE) > 100 THEN
    DBMS_OUTPUT_PUT_LINE(STUDENT_ROW.NAME | | ' has achieved grade PASS with total marks = ' || (STUDENT_ROW.MATHS + STUDENT_ROW.SCIENCE));
 14 DBMS_OUTPUT.PUT_LINE(STUDENT_ROW.NAME || ' has achieved grade FAIL with total marks = ' || (STUDENT_ROW.MATHS + STUDENT_ROW.SCIENCE));
 15 END IF;
16 END LOOP;
 17 CLOSE grade;
 Shushrut Kumar has achieved grade PASS with total marks = 163
Sinush ut Kuman has achieved grade PASS with total marks = 103
Viren Parmar has achieved grade PASS with total marks = 187
Sachin Tilokani has achieved grade PASS with total marks = 99
Neel Thakar has achieved grade PASS with total marks = 122
 Param Shah has achieved grade FAIL with total marks = 95
```

PL/SQL procedure successfully completed.