DBMS – Assignment A7

Creating tables & inserting data

```
CREATE TABLE O_RollCall(
name VARCHAR(255),
roll NUMBER(14),
class VARCHAR(255)
);
```
Table created.
```
CREATE TABLE N_RollCall(
name VARCHAR(255),
roll NUMBER(14),
class VARCHAR(255)
);
```
Table created.

```
INSERT INTO O_RollCall VALUES ('Stewie', 1, 'Comp 1');
INSERT INTO O_RollCall VALUES ('Edie', 2, 'Comp 2');
INSERT INTO O_RollCall VALUES ('Stomp', 3, 'Comp 3');
INSERT INTO O_RollCall VALUES ('Lara', 4, 'Comp 1');
INSERT INTO O_RollCall VALUES ('Foxy', 5, 'Comp 2');
```
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
```
INSERT INTO N_RollCall VALUES ('Stewie', 1, 'Comp 1');
INSERT INTO N_RollCall VALUES ('Edie', 2, 'Comp 2');
INSERT INTO N_RollCall VALUES ('Stomp', 3, 'Comp 3');
INSERT INTO N_RollCall VALUES ('Lara', 4, 'Comp 1');
INSERT INTO N_RollCall VALUES ('Foxy', 5, 'Comp 2');
INSERT INTO N_RollCall VALUES ('Gundeti', 6, 'Comp 3');
INSERT INTO N_RollCall VALUES ('Kalas', 7, 'Comp 2');
```
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.

Procedure

Explicit Cursor

```
DECLARE
  p_name VARCHAR(255);
  p_rollno NUMBER(15);
  p_class VARCHAR(255);
  CURSOR cc1 IS SELECT * FROM N_RollCall WHERE roll NOT IN (SELECT roll
FROM O_RollCall);
BEGIN

  OPEN cc1;
    LOOP
      FETCH cc1 INTO p_name, p_rollno, p_class;
      INSERT INTO O_RollCall VALUES (p_name, p_rollno, p_class);
      EXIT WHEN cc1%notfound;
      DBMS_OUTPUT.PUT_LINE(p_name || ' ' || p_rollno || ' ' || p_class);
      END LOOP;
  CLOSE cc1;

END;
/
```

Statement processed.
Gundeti 6 Comp 3
Kalas 7 Comp 2

O_RollCall table after procedure:

NAME	ROLL	CLASS
Stewie	1	Comp 1
Edie	2	Comp 2
Stomp	3	Comp 3
Lara	4	Comp 1
Foxy	5	Comp 2
Gundeti	6	Comp 3
Kalas	7	Comp 2
Kalas	7	Comp 2

Paramaterized Cursor

```
DECLARE
    p_name VARCHAR(255);
    p_rollno NUMBER(15);
    p_class VARCHAR(255);
    CURSOR pp1(roll1 NUMBER) IS SELECT * FROM N_RollCall WHERE roll >
roll1;
BEGIN

    OPEN pp1(3);
      LOOP
        FETCH pp1 INTO p_name, p_rollno, p_class;
        EXIT WHEN pp1%notfound;
        DBMS_OUTPUT.PUT_LINE(p_name || ' ' || p_rollno || ' ' || p_class);
      END LOOP;
    CLOSE pp1;

END;
/
```

Statement processed.

Lara 4 Comp 1

Foxy 5 Comp 2

Gundeti 6 Comp 3

Kalas 7 Comp 2

N_RollCall table after procedure:

NAME	ROLL	CLASS
Stewie	1	Comp 1
Edie	2	Comp 2
Stomp	3	Comp 3
Lara	4	Comp 1
Foxy	5	Comp 2
Gundeti	6	Comp 3
Kalas	7	Comp 2

Implicit Cursor

```
DECLARE
  total_rows NUMBER(2);
BEGIN

  UPDATE N_RollCall SET roll = roll + 1;
  IF sql%notfound THEN
    dbms_output.put_line('no roll was updated');
  ELSIF sql%found THEN
    total_rows := sql%rowcount;
    DBMS_OUTPUT.PUT_LINE( total_rows || ' roll calls were affected ');
  END IF;

END;
/
```

Statement processed.
7 roll calls were affected

N_RollCall table after procedure:

NAME	ROLL	CLASS
Stewie	2	Comp 1
Edie	3	Comp 2
Stomp	4	Comp 3
Lara	5	Comp 1
Foxy	6	Comp 2
Gundeti	7	Comp 3
Kalas	8	Comp 2

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