

Database Queries for Assignment-A7

Creating tables

O_RollCall table:

```
CREATE TABLE O_RollCall(
    name VARCHAR(255),
    roll NUMBER(14),
    class VARCHAR(255)
);
```

N_RollCall table:

```
CREATE TABLE N_RollCall(
    name VARCHAR(255),
    roll NUMBER(14),
    class VARCHAR(255)
);
```

Inserting data

O_RollCall table:

```
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');
```

N_RollCall table:

```

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');

```

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;
/

```

Parameterized 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;
/

```

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;
/

```