

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;
/

```