Some DDL examples

```
--DROP TABLE emp1;
--DROP TABLE dept1;
CREATE TABLE emp1 AS SELECT * FROM nikovits.emp;
CREATE TABLE dept1 AS SELECT * FROM nikovits.dept;

Creating a SEQUENCE
-- DROP SEQUENCE seq1;
CREATE SECUENCE seq1;
```

CREATE SEQUENCE seq1;
CREATE SEQUENCE seq1 MINVALUE 1 MAXVALUE 100 INCREMENT BY 5
START WITH 50 CYCLE;
SELECT seq1.NEXTVAL FROM dual;
SELECT seq1.CURRVAL FROM dual;

Creating a **SYNONYM**

```
--DROP SYNONYM other_name;
CREATE SYNONYM other_name FOR emp1;
SELECT * FROM other name;
```

Primary key constraint

```
ALTER TABLE emp1 ADD CONSTRAINT emp1_empno_pk PRIMARY KEY (empno); ALTER TABLE dept1 ADD CONSTRAINT dept1 deptno pk PRIMARY KEY (deptno);
```

Foreign key constraint

ALTER TABLE emp1 ADD CONSTRAINT emp1_deptno_fk FOREIGN KEY (deptno) REFERENCES dept1 (deptno) ON DELETE CASCADE;

Check previous foreign key

```
DELETE FROM dept1 WHERE deptno = 10;
SELECT * FROM dept1;
SELECT * FROM emp1;
ROLLBACK;
```

Add a new column

ALTER TABLE emp1 ADD (mgr1 NUMBER(4));

Add a new column with constraint

ALTER TABLE emp1 ADD (mgr2 NUMBER(4) CONSTRAINT emp1_mgr2_fk REFERENCES emp1 (empno));

NOT NULL constraint

ALTER TABLE emp1 MODIFY (sal CONSTRAINT emp1_sal_nn NOT NULL);

UNIQUE constraint

ALTER TABLE emp1 ADD CONSTRAINT emp1 ename u UNIQUE (ename);

CHECK constraint

```
ALTER TABLE emp1 ADD CONSTRAINT emp1_c1 CHECK (sal \leq 9999); ALTER TABLE emp1 ADD CONSTRAINT emp1_c2 CHECK (sal \geq 500);
```

Rename a column

ALTER TABLE emp1 RENAME COLUMN sal TO sal2;

Drop a constraint

ALTER TABLE emp1 DROP CONSTRAINT emp1 c1;

Query the constraint from Data Dictionary with SQL

Drop the tables. The order is important!!!

```
DROP TABLE dept1; -- it will give an error DROP TABLE emp1; DROP TABLE dept1; -- now it is OK.
```

Data model of the two tables:

