## **CUNY MSDA - IS607: DATA ACQUISITION AND MANAGEMENT**

# Week 7 Assignment

## A. Leopold HILLAH

#### ##### Creation of a new database and master/detail table #####

Creation of msdetail database.

```
CREATE DATABASE msdetail

WITH OWNER = postgres

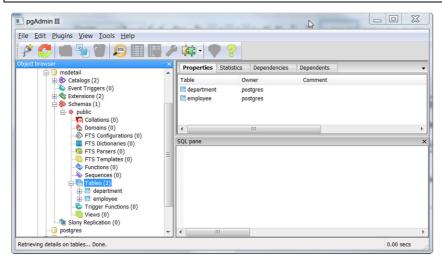
ENCODING = 'UTF8'

TABLESPACE = pg_default

LC_COLLATE = 'English_United Kingdom.1252'

LC_CTYPE = 'English_United Kingdom.1252'

CONNECTION LIMIT = -1;
```



## ##### 2. Creation of two tables with a one-to-many relationship #####

```
CREATE TABLE DEPARTMENT
   DEPID character varying,
   DEPNAME character varying,
DEPADDR character varying,
CONSTRAINT DEP_PK PRIMARY KEY (DEPID)
WITH (
   OIDS=FALSE
ALTER TABLE DEPARTMENT
   OWNER TO postgres;
CREATE TABLE EMPLOYEE
   EMPID character varying, DEPID character varying,
   EMPNAME character varying,
   GENDER character varying,
   SALARY numeric
  CONSTRAINT EMP_PK PRIMARY KEY (EMPID),
CONSTRAINT EMPLOYEE_DEPARTMENT_ID_FKEY FOREIGN KEY (DEPID)
REFERENCES DEPARTMENT (DEPID) MATCH SIMPLE
ON UPDATE CASCADE ON DELETE RESTRICT
WITH (
   OIDS=FALSE
ALTER TABLE EMPLOYEE
   OWNER TO postgres;
```

### ##### 3. Creation of two tables with a one-to-many relationship #####

```
INSERT INTO DEPARTMENT VALUES ('D01', 'SALES', 'EG01-02');
INSERT INTO DEPARTMENT VALUES ('D02', 'IT', 'EG01-02');
INSERT INTO DEPARTMENT VALUES ('D03', 'HR', 'EG01-02');
INSERT INTO DEPARTMENT VALUES ('D04', 'RISK', NULL);

COMMIT;
```

```
INSERT INTO EMPLOYEE VALUES ('E01', 'D01', 'JOHN DOE', 'JOHNNY', 'MALE', 35000);
INSERT INTO EMPLOYEE VALUES ('E02', 'D04', 'JILL HILL', NULL, 'FEMALE', 42000);
INSERT INTO EMPLOYEE VALUES ('E03', 'D03', 'PETE MILL', NULL, 'MALE', 41000);
INSERT INTO EMPLOYEE VALUES ('E04', 'D02', 'SARAH RICKS', 'SAR', 'FEMALE', 60000);
INSERT INTO EMPLOYEE VALUES ('E05', 'D03', 'ROGER JOHNSON', NULL, 'MALE', 51000);
INSERT INTO EMPLOYEE VALUES ('E06', 'D02', 'RICHARD FORD', 'RICK', 'MALE', 62000);
INSERT INTO EMPLOYEE VALUES ('E07', 'D01', 'LEILA PETERS', 'L.A.', 'FEMALE', 44000);
INSERT INTO EMPLOYEE VALUES ('E08', 'D04', 'ANTHONY BAILEY', NULL, 'MALE', 338000);
COMMIT;
```

#### ##### 4. Creation of two tables with a one-to-many relationship #####

```
SELECT * FROM EMPLOYEE A, DEPARTMENT B
WHERE A.DEPID = B.DEPID
AND B.DEPNAME = 'IT';
```

```
SELECT * FROM EMPLOYEE A, DEPARTMENT B
WHERE A.DEPID = B.DEPID
AND NICKNAME IS NOT NULL;
```

### ##### 5. Entity-Relationship Diagram #####

