CUNY MSDA - IS607 : DATA ACQUISITION AND MANAGEMENT

Week 8 Quiz

A. Leopold HILLAH

1.a Creation of the Organization Chart table

```
CREATE TABLE ORGCHART
(
  EMPID CHARACTER VARYING NOT NULL,
  DEPNAME CHARACTER VARYING NOT NULL,
  SURNAME CHARACTER VARYING NOT NULL,
  FIRSTNAME CHARACTER VARYING NOT NULL,
  ELEVEL NUMERIC NOT NULL,
  TITLE CHARACTER VARYING,
  MANAGER CHARACTER VARYING,
  CONSTRAINT ORGCHART_PK PRIMARY KEY (EMPID),
  CONSTRAINT MANAGER_ID_FKEY FOREIGN KEY (EMPID)
      REFERENCES ORGCHART (EMPID) MATCH SIMPLE
      ON UPDATE CASCADE ON DELETE RESTRICT
)
WITH (
  OIDS=FALSE
);
ALTER TABLE ORGCHART
  OWNER TO POSTGRES;
```

1.b INSERT Script

```
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E001', 'CEO', 'JOBS', 'STEVE', 1, 'CEO', NULL);
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E011', 'IOS SOFTWARE', 'FORSTALL', 'SCOTT', 2, 'SVP, IOS SOFTWARE', 'E001');
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E021', 'FINANCE', 'OPPENHEIMER', 'PETER', 2, 'SVP, CHIEF FINANCIAL OFFICER',
'E001');
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E012', 'IOS SOFTWARE', 'VORRATH', 'KIM', 3, 'VP. PROGRAM MANAGEMENT', 'E011');
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E013', 'IOS SOFTWARE', 'GE MAHE', 'ISABEL', 3, 'VP. IOS WIRELESS SOFTWARE',
'E011');
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E014', 'IOS SOFTWARE', 'LAMIRAUX', 'HENRI', 3, 'VP. ENGINEERING, IOS APPS',
'E011');
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E022', 'FINANCE', 'RAFAEL', 'BETSY', 3, 'VP. CONTROLLER', 'E021');
INSERT INTO ORGCHART(EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E023', 'FINANCE', 'WIPFLER', 'GARY', 3, 'VP. TREASURER', 'E021');

COMMIT;
```

2. SELECT Scripts

```
SELECT A.ELEVEL, A.FIRSTNAME, A.SURNAME, A.TITLE, B.FIRSTNAME ||' '|| B.SURNAME AS MANAGER
FROM ORGCHART A
LEFT OUTER JOIN ORGCHART B
ON A.MANAGER = B.EMPID
ORDER BY A.MANAGER ASC NULLS FIRST, A.SURNAME ASC;
```

3. Management Update Scripts

```sql
INSERT INTO ORGCHART (EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E031', 'CEO', 'TIM', 'COOK', 1, 'CEO', NULL);
```

```sql
UPDATE ORGCHART A
SET
MANAGER = 'E031'
FROM ORGCHART B
WHERE A.MANAGER = B.EMPID
AND B.FIRSTNAME='STEVE' AND B.SURNAME= 'JOBS';
```

```sql
DELETE FROM ORGCHART
WHERE FIRSTNAME='STEVE' AND SURNAME= 'JOBS';
```

```sql
INSERT INTO ORGCHART (EMPID, DEPNAME, SURNAME, FIRSTNAME, ELEVEL, TITLE, MANAGER)
    VALUES ('E032', 'OPERATIONS', 'WOJCICKI', 'SUSAN', 2, 'CHIEF OPERATING OFFICER', 'E031');
```

```sql
UPDATE ORGCHART A
SET
MANAGER = 'E032'
FROM ORGCHART B
WHERE A.MANAGER = B.EMPID
AND B.FIRSTNAME='TIM' AND B.SURNAME= 'COOK';
```

```sql
COMMIT;
```