MEMO

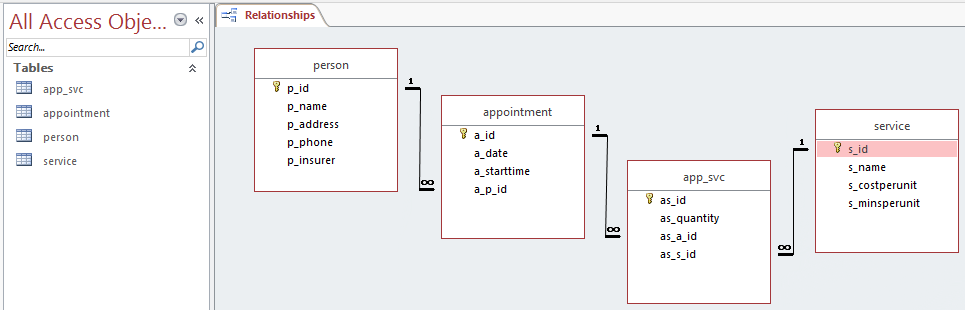
**FROM:** Edward Ma, W0057568, 701

**TO:** Bill Cunningham

**DATE:** 11-3-2016

**SUBJECT**: DBAS 1001 Assignment #4

* **Existing System Details:**From assg4.docx, it gives a ERD diagram and Data Dictionary of said diagram.
* **Statement of Requirements**:   
  I will use the existing system details to create that data base with Access 2016 using table creation and queries creation, as well as with Oracle SQL Developer.
* **Analysis:**

***Access 2016 via Table Creation:***

***Access 2016 via Queries***

DROP TABLE app\_svc

DROP TABLE appointment

DROP TABLE service

DROP TABLE person

CREATE TABLE person (

p\_id INTEGER,

p\_name TEXT,

p\_address TEXT,

p\_phone TEXT,

p\_insurer TEXT,

CONSTRAINT person\_p\_id\_PK PRIMARY KEY (p\_id)

);  
  
CREATE TABLE service (

s\_id INTEGER,

s\_name TEXT,

s\_costperunit NUMBER,

s\_minsperunit NUMBER,

CONSTRAINT service\_s\_id\_PK PRIMARY KEY (s\_id)

);

CREATE TABLE appointment (

a\_id INTEGER,

a\_date DATE,

a\_starttime DATE,

a\_p\_id INTEGER,

CONSTRAINT appointment\_a\_id\_PK PRIMARY KEY (a\_id),

CONSTRAINT appointment\_a\_p\_id\_FK FOREIGN KEY (a\_p\_id)

REFERENCES person (p\_id)

);

CREATE TABLE app\_svc (

as\_id INTEGER,

as\_quantity INTEGER,

as\_a\_id INTEGER,

as\_s\_id INTEGER,

CONSTRAINT app\_svc\_as\_id\_PK PRIMARY KEY (as\_id),

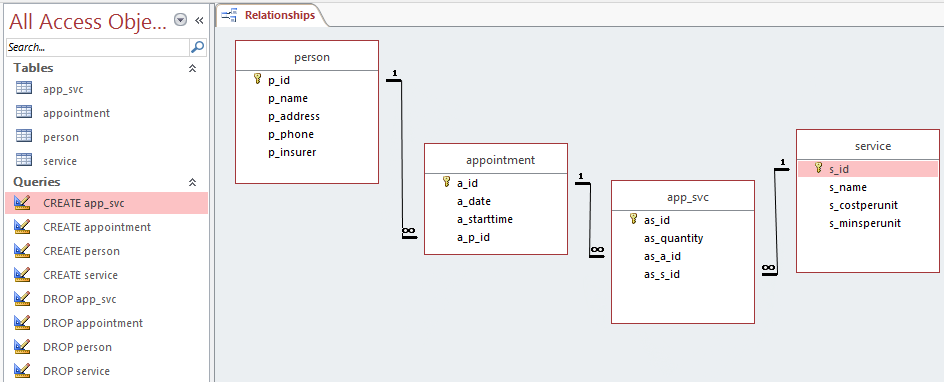
CONSTRAINT app\_svc\_as\_a\_id\_FK FOREIGN KEY (as\_a\_id)

REFERENCES appointment (a\_id),

CONSTRAINT app\_svc\_as\_s\_id\_FK FOREIGN KEY (as\_s\_id)

REFERENCES service (s\_id)

);

***Proof of work***

***Oracle SQL Developer***

CREATE USER edma

IDENTIFIED BY w0057568

DEFAULT TABLESPACE users;

GRANT DBA TO edma;

CREATE USER dentaloffice

IDENTIFIED BY dentaloffice

DEFAULT TABLESPACE users;

GRANT CONNECT,RESOURCE TO dentaloffice;

CONNECT dentaloffice/dentaloffice

DROP TABLE app\_svc CASCADE CONSTRAINTS;

DROP TABLE appointment CASCADE CONSTRAINTS;

DROP TABLE service CASCADE CONSTRAINTS;

DROP TABLE person CASCADE CONSTRAINTS;

CREATE TABLE person (

p\_id NUMBER(4),

p\_name VARCHAR2(20),

p\_address VARCHAR2(40),

p\_phone CHAR(10),

p\_insurer VARCHAR2(20),

CONSTRAINT person\_p\_id\_PK PRIMARY KEY (p\_id));

CREATE TABLE service (

s\_id NUMBER(4),

s\_name VARCHAR2(10),

s\_costperunit NUMBER(6),

s\_minsperunit NUMBER(6),

CONSTRAINT service\_s\_id\_PK PRIMARY KEY (s\_id));

CREATE TABLE appointment (

a\_id NUMBER(4),

a\_date DATE,

a\_starttime DATE,

a\_p\_id NUMBER(4),

CONSTRAINT appointment\_a\_id\_PK PRIMARY KEY (a\_id),

CONSTRAINT appointment\_a\_p\_id\_FK FOREIGN KEY (a\_p\_id) REFERENCES person (p\_id));

CREATE TABLE app\_svc (

as\_id NUMBER(4),

as\_quantity NUMBER(4),

as\_a\_id NUMBER(4),

as\_s\_id NUMBER(4),

CONSTRAINT app\_svc\_as\_id\_PK PRIMARY KEY (as\_id),

CONSTRAINT app\_svc\_as\_a\_id\_FK FOREIGN KEY (as\_a\_id) REFERENCES appointment (a\_id),

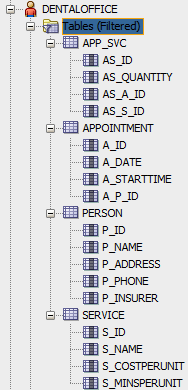
CONSTRAINT app\_svc\_as\_s\_id\_FK FOREIGN KEY (as\_s\_id) REFERENCES service (s\_id));

COMMIT;

CONNECT edma/w0057568

REVOKE CONNECT FROM dentaloffice;

***Proof of work***



* **Recommendation**My recommendation is to use the database provided above to be develop, which will satisfy the Statement of Requirement.