In the name of God Database Lab Spring 2016

Iman Tabrizian

April 6, 2016

Date Performed: March 2, 2016 Partners: Parham Alvani

1 Results and Conclusions

1. First query to create table schema:

```
CREATE TABLE "persons-1"
       P_Id int identity(1,1),
       LastName varchar(255),
       FirstName varchar(255),
       Address varchar(255),
       City varchar(255),
       primary key (FirstName, LastName));
(a)
               SELECT * FROM "persons-1" ORDER BY LastName ASC;
(b)
               INSERT INTO "persons-1" (LastName, FirstName, Address, City)
                       VALUES ('Hansen', 'Ola', 'Timoteivn 10', 'Sandnes');
               INSERT INTO "persons-1" (LastName, FirstName, Address, City)
                       VALUES ('Svendson', 'Tove', 'Borgvn 23', 'Sandnes');
               INSERT INTO "persons-1" (LastName, FirstName, Address, City)
                       VALUES ('Pettersen', 'Kari', 'Storgt 20', 'Stavanger');
               INSERT INTO "persons-1" (LastName, FirstName, Address, City)
                       VALUES ('Nilsen', 'Tom', 'Vingvn 23', 'Stavanger');
               SELECT * FROM "persons-1";
(c)
               BEGIN TRANSACTION t1
               UPDATE "persons-1" SET phone_number='0019392' where P_id=1;
               UPDATE "persons-1" SET phone_number='0019392' where P_id=2;
               UPDATE "persons-1" SET phone_number='0019392' where P_id=3;
```

```
UPDATE "persons-1" SET phone_number='0019392' where P_id=4;
                COMMIT TRANSACTION t1;
                SELECT * FROM "persons-1";
(d)
                SELECT FirstName, LastName, Full_address = (CASE P_id
                        WHEN 1 THEN 'Jomhori'
                        WHEN 2 THEN 'Enghelab'
                        WHEN 3 THEN 'Felestin'
                        ELSE 'Ferdowsi'
                end) FROM "persons-1";
(e)
           SET identity_insert "persons-1" on;
           BEGIN TRANSACTION t1
           INSERT INTO "persons-1"
                    (P_id, FirstName, LastName, City, Address, phone_number) VALUES
                    (7, 'Tjessem', 'Jakob', 'Nissestien 67', 'Sandnes', '0017673276');
           SELECT * FROM "persons-1" ORDER BY FirstName ASC;
           COMMIT TRANSACTION t1;
(f)
           DECLARE @temp int
           SELECT @temp = max(P_id) FROM "persons-1";
           WHILE @temp > 0 BEGIN
                    PRINT 'Okay';
                    SET @temp=@temp-1;
           END
(g)
           DECLARE @temp int
           SELECT @temp = max(P_id) FROM "persons-1";
           WHILE @temp > 0 begin
                    print 'Okay';
                    SET @temp=@temp-1;
           END
(h)
           SET identity_insert "persons-1" on;
           DELETE FROM "persons-1" where FirstName='taylor';
           declare @temp nvarchar(255);
           SELECT @temp = phone\_number FROM "persons-1" where Firstname='Tjessem';
           declare @casted int;
           SET @casted = cast(@temp as int);
           if @temp < 0011234567
           INSERT INTO "persons-1" (P_id,FirstName,Lastname, Address,City,phone_number
   ELSE
   INSERT INTO "persons-1" (P_id, FirstName, Lastname, Address, City, phone_number) VA
           SELECT * FROM "persons-1";
```

2. Creating table schema

```
CREATE TABLE "students-1"(\)

name varchar(255),\\\
student\\_id int primary key,\\\\
grade int\\\\\
);\\\

(a) Adding data to table:

DELETE FROM "students-1";\\\
INSERT INTO "students-1" (name, student\\_id, grade) VALUES ('R1', 8831047, 12)

INSERT INTO "students-1" (name, student\\_id, grade) VALUES ('R2', 8831043, 10);\\\
INSERT INTO "students-1" (name, student\\_id, grade) VALUES ('R4', 8831051, 16)

INSERT INTO "students-1" (name, student\\_id, grade) VALUES ('R4', 8831051, 16)

INSERT INTO "students-1" (name, student\\_id, grade) VALUES ('R1', 8831012, 11);\\\\
SELECT * FROM "students-1";\\\\\

SELECT * FROM "students-1";\\\\\

SELECT * FROM "students-1";\\\\

Note the content of the content of
```

(b) Achieving result:

UPDATE "students-1" SET "students-1".grade = "students-1".grade + 2 output inserted
inserted.student\[_id,inserted.grade,deleted.grade into @temp where "students-1".gra
SELECT * FROM @temp;\\ \]