Worksheet 9

Submission Instructions: Submit a text file or a pdf file with your answers. Name your file as last- nameFirstnameW9.fileExtension (e.g., chaturvediRituW9.txt). Hand-written answers will not be accepted.

Question 1: Complete the given CREATE TABLE command to create an (empty) table test that has the following structure and constraints.

```
         Table "public.test"
 Column |          Type           |      Constraints
--------+-------------------------+------------------------------
 sno    | character varying(3)    | primary key
 sname  | character varying(10)   | not null
 status | integer                 | status > 20
 city   | character varying(10)   | cannot start with letter 'R'
```

```
CREATE TABLE test (sno      VARCHAR (3)   PRIMARY KEY ,
                   sname       VARCHAR (10) NOT NULL      ,
                   status    INTEGER     CHECK (status > 20)   ,
                   city      VARCHAR(10)  CHECK (city NOT LIKE 'R%')  );
```

Question 2a. What is the result of SELECT * FROM test; after the scenario given below?

```
1   CHATURVR=> BEGIN;
2   BEGIN
3   CHATURVR=> INSERT INTO TEST VALUES ('S1', 'ARTHUR', 24, 'GUELPH');
4   INSERT 0 1
5   CHATURVR=> INSERT INTO TEST VALUES ('S2', 'DORA', 25, 'GUELPH');
6   INSERT 0 1
7   CHATURVR=> INSERT INTO TEST VALUES ('S3', 'FLORA', 15, 'GUELPH');
8   ERROR:  new row for relation "test" violates check constraint "test_status_check"
9   DETAIL:  Failing row contains ('S3', 'FLORA', 15, 'GUELPH').
10  CHATURVR=> END;
11  ROLLBACK
12  CHATURVR=>
```

```
crober35=> select * from test;
 sno | sname | status | city
-----+-------+--------+------
(0 rows)
```

2b. What is the result of SELECT * FROM test; after the scenario given below?

```
CHATURVR=> INSERT INTO TEST VALUES ('S1', 'ARTHUR', 24, 'GUELPH');
INSERT 0 1
CHATURVR=> INSERT INTO TEST VALUES ('S2', 'DORA', 25, 'GUELPH');
INSERT 0 1
CHATURVR=> INSERT INTO TEST VALUES ('S3', 'FLORA', 15, 'GUELPH');
ERROR:  new row for relation "test" violates check constraint "test_status_check"
DETAIL:  Failing row contains ('S3', 'FLORA', 15, 'GUELPH').
CHATURVR=> ROLLBACK;
```

```
crober35=> select * from test;
 sno | sname   | status | city
-----+---------+--------+--------
 S1  | ARTHUR  |     24 | GUELPH
 S2  | DORA    |     25 | GUELPH
(2 rows)
```

Question 3. Complete the following CREATE TABLE command that creates a table called temp from existing tables S and SP (use these tables from lab2). It stores supplier name and the total number of parts supplied by each supplier as shown below:

```
chaturvr=> SELECT * FROM temp;
 sname | # of Parts
-------+------------
 SMITH |          1
 CLARK |          1
 JONES |          2
 BLAKE |          2
 ADAMS |          6
(5 rows)
```

CREATE TABLE temp AS _____

create table temp13 as (select sname,count(*) "# of Parts" FROM s natural join sp group by sname);