Question 5. [8 MARKS]

Suppose I have a file called nonsense.ddl containing this:

```
DROP SCHEMA IF EXISTS rp CASCADE;
CREATE SCHEMA rp;
SET SEARCH_PATH TO rp;
CREATE TABLE Things (
   A INT PRIMARY KEY,
  B INT,
  C INT UNIQUE
);
CREATE TABLE Junk (
  G INT PRIMARY KEY,
  H INT,
  I INT,
  FOREIGN KEY (I) REFERENCES Things(A) ON UPDATE CASCADE ON DELETE CASCADE
);
CREATE TABLE Stuff (
  D INT,
  E INT,
  F INT PRIMARY KEY,
  FOREIGN KEY (E) REFERENCES Things(C) ON UPDATE RESTRICT ON DELETE SET NULL,
  FOREIGN KEY (E) REFERENCES Junk(G) ON UPDATE SET NULL ON DELETE CASCADE
);
```

Part (a) [2 MARKS]

Suppose I imported this file into postgreSQL using the command \i nonsense.ddl and then a few weeks later the following happened when I tried to access table Junk.

```
dbsrv1% psql csc343h-dianeh
psql (9.1.15, server 9.1.14)
Type "help" for help.

csc343h-dianeh=> SELECT * FROM Junk;
ERROR: relation "junk" does not exist
LINE 1: SELECT * FROM Junk;
```

Modify my interaction above so that the SELECT statement works.

Part (b) [2 MARKS]

What is the most important thing that is the same about PRIMARY KEY and UNIQUE?

What is one important difference between PRIMARY KEY and UNIQUE?

Part (c) [2 MARKS]

Suppose the tables have been populated as shown below. Modify the data to show the contents of the three tables after this command is executed:

UPDATE Things SET C = 20 WHERE A = 8;

Things:	Stuff:	Junk:
a b c	d e f	g h i
+	+	+
3 2 3	3 4 1	9 0 3
4 2 5	1 6 3	3 2 9
8 2 6	2 9 5	6 2 8
1 5 4	2 3 4	8 5 9
9 8 7		4 1 1
2 2 9		

Part (d) [2 MARKS]

Suppose we began with the same original tables, shown below, but ran a different command. Modify the data to show the contents of the three tables after this command is executed:

DELETE FROM Things WHERE C = 3;

Things:	Stuff:	Junk:
a b c	d e f	g h i
+	+	+
3 2 3	3 4 1	9 0 3
4 2 5	1 6 3	3 2 9
8 2 6	2 9 5	6 2 8
1 5 4	2 3 4	8 5 9
9 8 7		4 1 1
2 2 9		