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#### Notes:

We primarily worked in SQL Developer when writing our .sql file for improved debugging and editing. After finishing our project and running it in PuttY, it seems that there are two very odd situations in which while SQL says an insert failed/violated a constraint, the value is still present and is able to be used in queries indicating that this might be a bug with SQL or Putty as the value IS successfully inserted into the table in both PuttY and SQL Developer. This happens for the equipment with id:'A01-02X as well as the equipment id:'test\_serial\_5'. The queries/triggers later on also show that these values were correctly inserted and handled in both Putty and SQL further indicating this bug.

In addition to this, we just wanted to include this for clarification:

For the various errors that occur after certain inserts/updates, these are produced by the trigger rejected bad data which we confirmed with the TA/PLA Oleksandr Narykov as being the correct/intended behavior for the trigger doing its job

We also asked the TA/PLA Kyle Richards about where to insert the "Set serveroutput on;" in the trigger or .sql file and he said it did not need to be included in it. However, after trying both this and setting it on in the sql server the output for the last trigger does not appear. However, in SQL Developer turning on DBMS output under the view options allows us to see the correct dbms\_output.putline(); commands that correctly display the patient and doctor information that is requested.

We are going to include files of both the Putty and SQL Developer outputs to show that it is working in case something goes wrong. Also, if you would like to see for yourself the output within SQL developer please contact John Mushatt @ jemushatt@wpi.edu for explanation/walkthrough

#### Triggers:

1. Doctor visits
  - a. Before
  - b. Insert
  - c. For each row
  - d. On examine
2. Insurance Payment
  - a. Before
  - b. Insert or Update
  - c. For each row

- d. On admission
- 3. Employee Check (We did three separate triggers but they are all effectively the same thing)
  - a. Before
  - b. Insert
  - c. For each row
  - d. On employee
- 4. Emergency Trigger
  - a. Before
  - b. Insert
  - c. For each row
  - d. On stayin
- 5. Equipment Update
  - a. Before
  - b. Insert
  - c. For each row
  - d. On equipment
- 6. Patient Leave
  - a. Before
  - b. Update
  - c. For each row
  - d. On admission