This assignment is about the unary operators.

First decide on the name, columns and identifier of a relation. It has to have at least 5 columns. At least two of those should be numeric. You will need to think about the tasks below as you decide this relation’s content. Create the relation and populate the relation with interesting instances in mysql. A few interesting instances are better than lots of dull ones, so think about “interesting.” (If you find instances elsewhere and can use them easily then do so. Instances are needed but it’s doing queries where most of the learning will occur.

For each task shown below:
- Make up a query - state it in English. (Do not be sloppy with your English. Your being able to precisely state a query is an important skill.)
- Devise a precedence chart answer
- Compile the precedence chart to SQL and execute the SQL query.

**Tasks:**

- **Filter:**
  - using at least 2 different simple conditions
  - using a compound condition (with “and”, “or” or “not” in it)
  - using a condition that must yield zero rows
  - using a condition that must yield all rows

- **Project:**
  - the identifier
  - the identifier plus some non-identifying columns
  - the identifier plus some plausible computed columns based on the numeric data.

- **Reduce:**
  - to each sensible single column, any column where it would be interesting to have the list of distinct values.
  - to each sensible pair of columns and both columns form the identifier
  - to a relation that is not all identifying columns

- **Group:**
  - over no columns
  - over each sensible single column
  - over a pair of columns
  - over some column (or columns) and also have a carry column

- **Also execute:**
  - a series of Groups
  - a Filter followed by a Project
  - a Filter followed by a Reduce
  - a Group followed by a filter

You must turn in your english queries, your precedence charts, and a printed version of your SQL session that includes the queries and results.