Python: Read line-based JSON records

```
import json

class JsonLineReader(object):
    def read_file(self, path):
        stream = open(path, "r")
        # FIXME: error handling
        for line in stream:
            cleaned = self.clean_line(line)
            parsed = json.loads(cleaned)
            yield parsed

    def clean_line(self, line):
        return line.rstrip("\n,")
```

Shell: Build and run

```
cd ~/prog101

ls

make

./prog
```

SQL: Create intermediate tables for multi-stage calculation.

```
drop table if exists frequencies;

-- Make a histogram of the target table, counting how many times each label occurs.
create table frequencies
    -- The new table will have whatever columns we select here.
    select
        -- Pass label into the temporary table.
        label,
        -- Count how many rows have this label.
        count(*) as frequency
    from targets
    group by
        label;

-- Show top ten items by frequency.
select
    label,
    frequency
from frequencies
order by
    -- Order descending, so that highest frequency comes first.
    frequency desc
-- Only show the top ten items.
limit 10;
```

JavaScript: Active slider widget

```
$.({
        // Run this block after the browser has loaded everything.

        // Depends on the jQuery UI "slider" library.
        $("#hours").slider({
                step: 0.1,
                start:function() {
                        // Turn off any animation that might be running.
                        // TODO: define above.
                        anim = false;
                },
                slide:function() {
                        hour = $(this).slider("value");
                        update_sun();
                        draw_sun();
                },
                stop:function() {
                        renderframe();
                },
        });
});
```