

Part 1 – Node and npm are installed and running correctly.

Command Prompt

```
C:\Users\Saira\mycurl>node --version
v6.9.1

C:\Users\Saira\mycurl>node
> console.log('Yay, node.js is installed and running');
Yay, node.js is installed and running
undefined
> .exit

C:\Users\Saira\mycurl>npm --version
3.10.8

C:\Users\Saira\mycurl>npm list -g
C:\Users\Saira\AppData\Roaming\npm
`-- npm-check@5.4.0
   +-- babel-runtime@6.22.0
   | +-- core-js@2.4.1
   | | `-- regenerator-runtime@0.10.1
   +-- callsite-record@3.2.2
   | +-- callsite@1.0.0
   | +-- error-stack-parser@1.3.6
   | | `-- stackframe@0.3.1
   | +-- highlight-es@1.0.1
   | | +-- is-es2016-keyword@1.0.0
   | | | `-- js-tokens@3.0.0
   | | | `-- pinkie-promise@2.0.1
   | | |   `-- pinkie@2.0.4
   +-- chalk@1.1.3
   | +-- ansi-styles@2.2.1
   | +-- escape-string-regexp@1.0.5
   | +-- has-ansi@2.0.0
   | +-- strip-ansi@3.0.1
   | `-- supports-color@2.0.0
   +-- co@4.6.0
   +-- depcheck@0.6.7
   | +-- babel-traverse@6.22.1
   | | +-- babel-code-frame@6.22.0
   | | | `-- esutils@2.0.2
   | | +-- babel-messages@6.22.0
   | | +-- babel-types@6.22.0
   | | | `-- to-fast-properties@1.0.2
   | | +-- debug@2.6.0
   | | | `-- ms@0.7.2
   | | +-- globals@9.14.0
   | | `-- invariant@2.2.2
   | |   `-- loose-envify@1.3.1
   +-- babylon@6.15.0
   +-- builtin-modules@1.1.1
   +-- deprecate@1.0.0
   +-- deps-regex@0.1.4
   +-- js-yaml@3.7.0
   | +-- argparse@1.0.9
```

C:\ Command Prompt

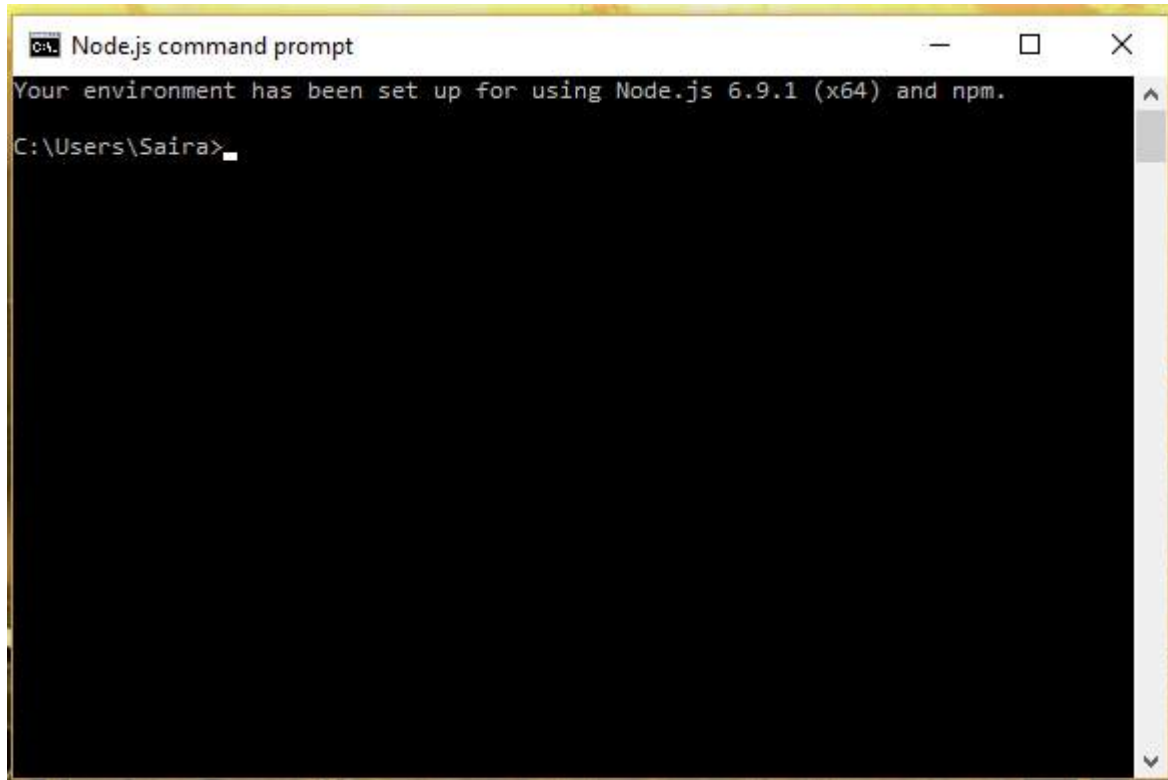
```
| | `-- sprintf-js@1.0.3
| | `-- esprima@2.7.3
| +-- require-package-name@2.0.1
| +-- walkdir@0.0.11
| `-- yargs@6.6.0
|   +-- camelcase@3.0.0
|   +-- cliui@3.2.0
|   | `-- wrap-ansi@2.1.0
|   +-- get-caller-file@1.0.2
|   +-- os-locale@1.4.0
|   | `-- lcid@1.0.0
|   |   `-- invert-kv@1.0.0
|   +-- require-directory@2.1.1
|   +-- require-main-filename@1.0.1
|   +-- set-blocking@2.0.0
|   +-- which-module@1.0.0
|   +-- y18n@3.2.1
|   `-- yargs-parser@4.2.1
+-- execa@0.2.2
| +-- cross-spawn-async@2.2.5
| | +-- lru-cache@4.0.2
| | | +-- pseudomap@1.0.2
| | | | `-- yallist@2.0.0
| | | `-- which@1.2.12
| | |   `-- isexe@1.1.2
| +-- npm-run-path@1.0.0
| +-- object-assign@4.1.1
| +-- path-key@1.0.0
| `-- strip-eof@1.0.0
+-- giturl@1.0.0
+-- global-modules@0.2.3
| +-- global-prefix@0.1.5
| | +-- homedir-polyfill@1.0.1
| | | `-- parse-passwd@1.0.0
| | `-- ini@1.3.4
| `-- is-windows@0.2.0
+-- globby@4.1.0
| +-- array-union@1.0.2
| | `-- array-uniq@1.0.3
| +-- arrify@1.0.1
| +-- glob@6.0.4
| | +-- inflight@1.0.6
| | | `-- wrappy@1.0.2
| | +-- inherits@2.0.3
| | +-- once@1.4.0
| | `-- path-is-absolute@1.0.1
| `-- pify@2.3.0
+-- inquirer@0.12.0
| +-- ansi-escapes@1.4.0
| +-- ansi-regex@2.1.1
| +-- cli-cursor@1.0.2
| | `-- restore-cursor@1.0.1
| +-- exit-hook@1.1.1
```

C:\ Command Prompt

```
| | `-- onetime@1.1.0
| +-- cli-width@2.1.0
| +-- figures@1.7.0
| +-- readline2@1.0.1
| | +-- code-point-at@1.1.0
| | +-- is-fullwidth-code-point@1.0.0
| | | `-- number-is-nan@1.0.1
| | `-- mute-stream@0.0.5
| +-- run-async@0.1.0
| +-- rx-lite@3.1.2
| +-- string-width@1.0.2
| `-- through@2.3.8
+-- is-ci@1.0.10
| `-- ci-info@1.0.0
+-- lodash@4.17.4
+-- meow@3.7.0
| +-- camelcase-keys@2.1.0
| | `-- camelcase@2.1.1
| +-- decamelize@1.2.0
| +-- loud-rejection@1.6.0
| | +-- currently-unhandled@0.4.1
| | | `-- array-find-index@1.0.2
| | `-- signal-exit@3.0.2
| +-- map-obj@1.0.1
| +-- minimist@1.2.0
| +-- normalize-package-data@2.3.5
| | +-- hosted-git-info@2.1.5
| | +-- is-builtin-module@1.0.0
| | | `-- validate-npm-package-license@3.0.1
| | | +-- spdx-correct@1.0.2
| | | | `-- spdx-license-ids@1.2.2
| | | `-- spdx-expression-parse@1.0.4
| +-- read-pkg-up@1.0.1
| | `-- read-pkg@1.1.0
| | +-- load-json-file@1.1.0
| | | `-- strip-bom@2.0.0
| | | | `-- is-utf8@0.2.1
| | | `-- path-type@1.1.0
| +-- redent@1.0.0
| | +-- indent-string@2.1.0
| | `-- strip-indent@1.0.1
| | | `-- get-stdin@4.0.1
| | `-- trim-newlines@1.0.0
+-- merge-options@0.0.64
| `-- is-plain-obj@1.1.0
+-- minimatch@3.0.3
| `-- brace-expansion@1.1.6
| | +-- balanced-match@0.4.2
| | `-- concat-map@0.0.1
+-- node-emoji@1.5.1
| `-- string.prototype.codepointat@0.2.0
+-- ora@0.2.3
| `-- cli-spinners@0.1.2
```

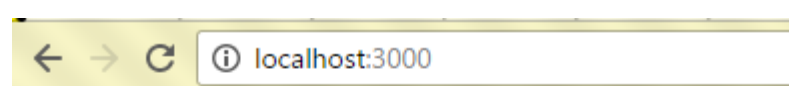
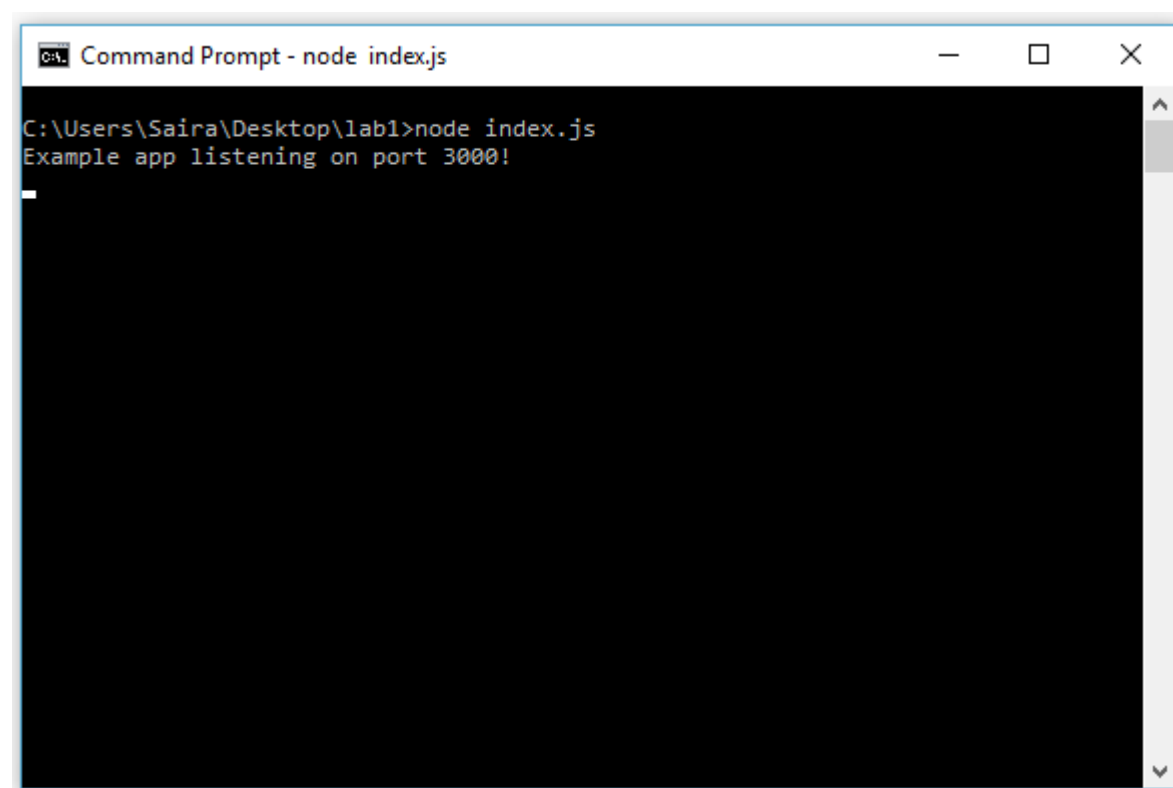
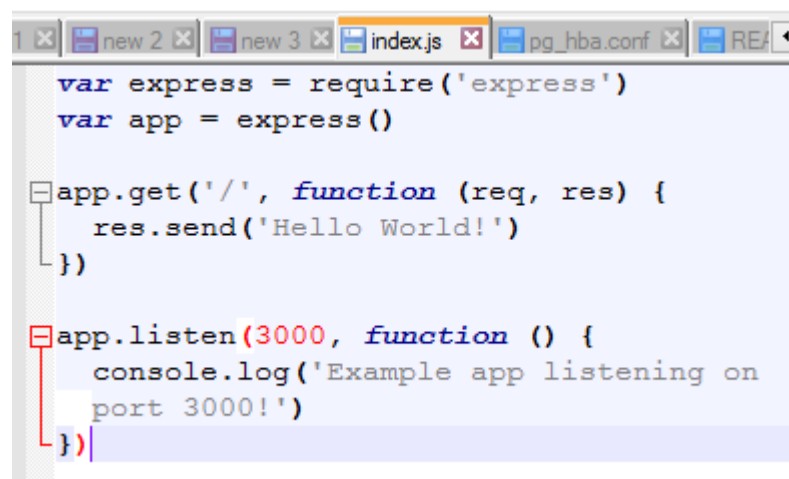
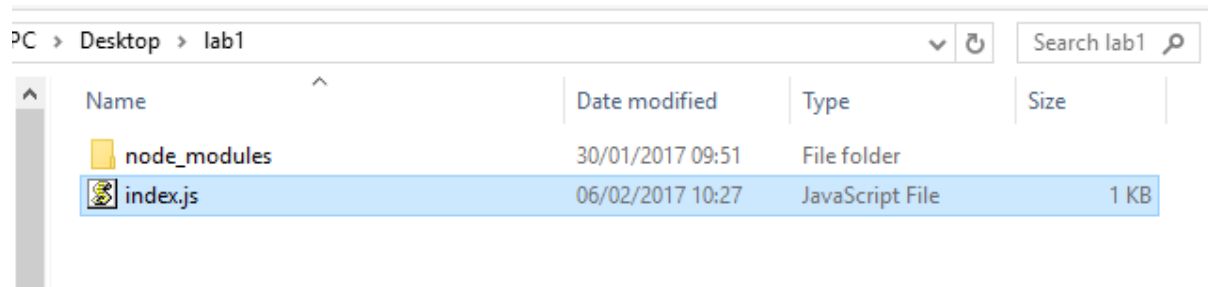
Command Prompt

```
+-- package-json@2.4.0
| +-- got@5.7.1
| | +-- create-error-class@3.0.2
| | | `-- capture-stack-trace@1.0.0
| | +-- duplexer2@0.1.4
| | +-- is-redirect@1.0.0
| | +-- is-retry-allowed@1.1.0
| | +-- is-stream@1.1.0
| | +-- lowercase-keys@1.0.0
| | +-- node-status-codes@1.0.0
| | +-- parse-json@2.2.0
| | | `-- error-ex@1.3.0
| | |   `-- is-arrayish@0.2.1
| | +-- read-all-stream@3.1.0
| | +-- readable-stream@2.2.2
| | | +-- buffer-shims@1.0.0
| | | +-- core-util-is@1.0.2
| | | +-- isarray@1.0.0
| | | +-- process-nextick-args@1.0.7
| | | +-- string_decoder@0.10.31
| | | `-- util-deprecate@1.0.2
| | +-- timed-out@3.1.3
| | +-- unzip-response@1.0.2
| | `-- url-parse-lax@1.0.0
| |   `-- prepend-http@1.0.4
| +-- registry-auth-token@3.1.0
| | `-- rc@1.1.6
| |   +-- deep-extend@0.4.1
| |   `-- strip-json-comments@1.0.4
| `-- registry-url@3.1.0
+-- path-exists@2.1.0
+-- pkg-dir@1.0.0
| `-- find-up@1.1.2
+-- semver@5.3.0
+-- semver-diff@2.1.0
+-- text-table@0.2.0
+-- throat@2.0.2
`-- update-notifier@0.6.3
  +-- boxen@0.3.1
  | +-- filled-array@1.1.0
  | +-- repeating@2.0.1
  | | `-- is-finite@1.0.2
  | `-- widest-line@1.0.0
  +-- configstore@2.1.0
  | +-- dot-prop@3.0.0
  | | `-- is-obj@1.0.1
  | +-- graceful-fs@4.1.11
  | +-- mkdirp@0.5.1
  | | `-- minimist@0.0.8
  | +-- os-tmpdir@1.0.2
  | +-- osenv@0.1.4
  | | `-- os-homedir@1.0.2
  | +-- uuid@2.0.3
  |
  | +-- write-file-atomic@1.3.1
  | | +-- imurmurhash@0.1.4
  | | `-- slide@1.1.6
  | `-- xdg-basedir@2.0.0
  +-- is-npm@1.0.0
  `-- latest-version@2.0.0
```

A screenshot of a Windows command prompt window titled "Node.js command prompt". The window has a standard Windows title bar with minimize, maximize, and close buttons. The text inside the window reads: "Your environment has been set up for using Node.js 6.9.1 (x64) and npm." followed by a new line and the command prompt "C:\Users\Saira>". The background of the command prompt is black, and the text is white. There is a small icon in the top left corner of the window.

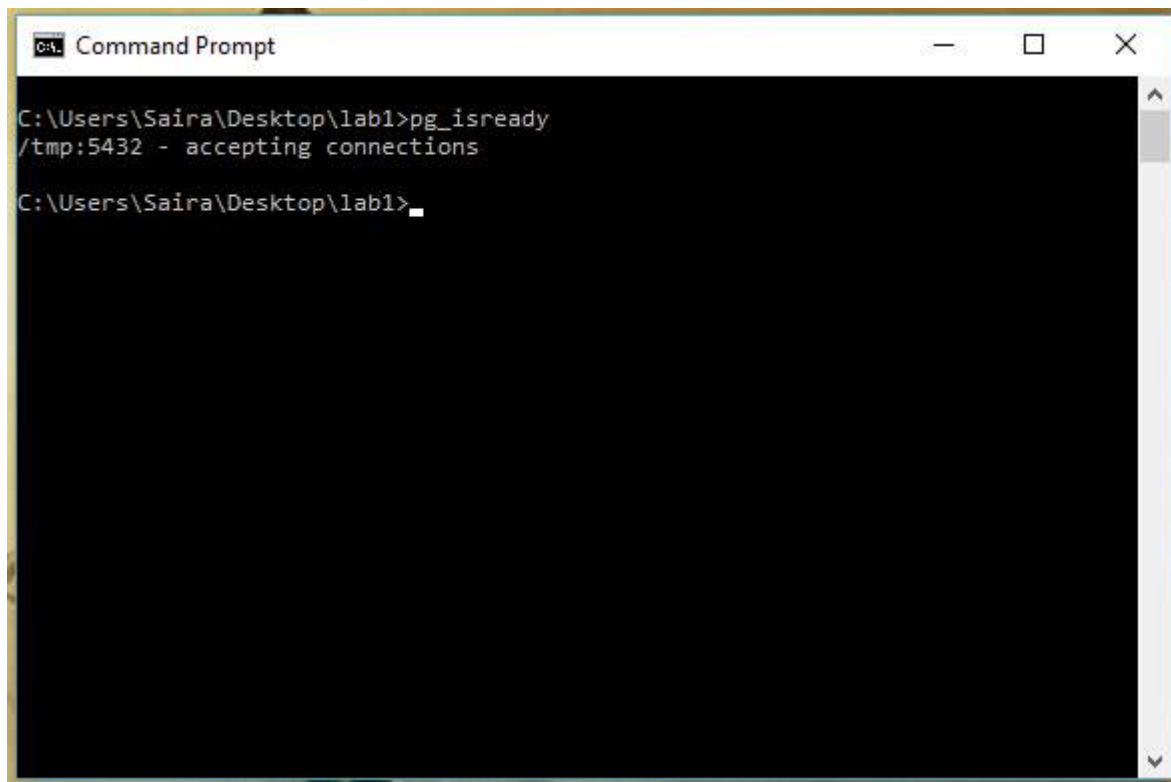
```
Node.js command prompt
Your environment has been set up for using Node.js 6.9.1 (x64) and npm.
C:\Users\Saira>
```

Part 2 – Express is installed and 'index.js' is created in 'lab1' folder. Endpoint responds to the port 3000.



Hello World!

Part 3 – Installed Postgres. Postgres server instance is working properly.



```
Command Prompt

C:\Users\Saira\Desktop\lab1>pg_isready
/tmp:5432 - accepting connections

C:\Users\Saira\Desktop\lab1>
```

The screenshot shows a Windows Command Prompt window with a black background and white text. The title bar reads "Command Prompt". The command prompt shows the user is in the directory "C:\Users\Saira\Desktop\lab1". The command "pg_isready" has been entered and executed, resulting in the output "/tmp:5432 - accepting connections". The prompt is now waiting for the next command.

Part 4 –Pgguide database loaded. The database is inspected using the psql client as shown.

```
Command Prompt - psql -U postgres --dbname pgguide

C:\Users\Saira\Desktop\lab1>psql -U postgres --dbname pgguide
Password for user postgres:
psql (9.6.1)
WARNING: Console code page (850) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
Type "help" for help.

pgguide=# \d
          Schema | List of relations | Type | Owner
-----
 public | products | table | postgres
 public | products_id_seq | sequence | postgres
 public | purchase_items | table | postgres
 public | purchase_items_id_seq | sequence | postgres
 public | purchases | table | postgres
 public | purchases_id_seq | sequence | postgres
 public | users | table | postgres
 public | users_id_seq | sequence | postgres
(8 rows)

pgguide=# table products;
 id | title | price | created_at | deleted_at | tags
-----
 1 | Dictionary | 9.99 | 2011-01-01 20:00:00+00 |  | {Book}
 2 | Python Book | 29.99 | 2011-01-01 20:00:00+00 |  | {Book,Programming,Python}
 3 | Ruby Book | 27.99 | 2011-01-01 20:00:00+00 |  | {Book,Programming,Ruby}
 4 | Baby Book | 7.99 | 2011-01-01 20:00:00+00 |  | {Book,Children,Baby}
 5 | Coloring Book | 5.99 | 2011-01-01 20:00:00+00 |  | {Book,Children}
 6 | Desktop Computer | 499.99 | 2011-01-01 20:00:00+00 |  | {Technology}
 7 | Laptop Computer | 899.99 | 2011-01-01 20:00:00+00 |  | {Technology}
 8 | MP3 Player | 188.00 | 2011-01-01 20:00:00+00 |  | {Technology,Music}
 9 | 42" LCD TV | 499.00 | 2011-01-01 20:00:00+00 |  | {Technology,TV}
10 | 42" Plasma TV | 529.00 | 2011-01-01 20:00:00+00 |  | {Technology,TV}
11 | Classical CD | 9.99 | 2011-01-01 20:00:00+00 |  | {Music}

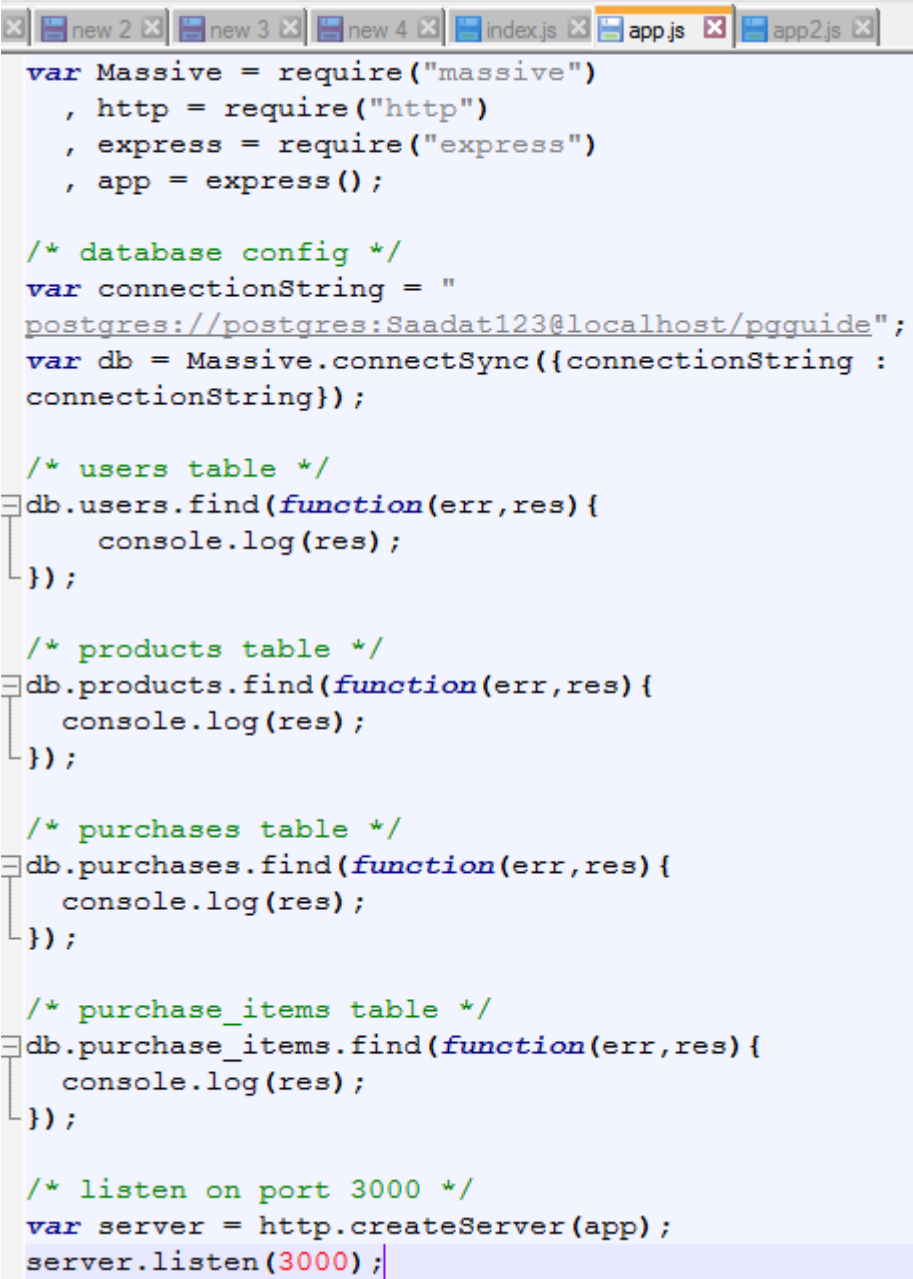
pgguide=#
pgguide=# table users;
 id | email | password | details | created_at | deleted_at
-----
 1 | Earlean.Bonaccigli@yahoo.com | 029761dd44fec0b14825843ad8d0dface | "sex"=>"M" | 2009-12-20 20:36:00+00 | 
 2 | Evelyn.Patnode@gmail.com | d678656644a3f44023f98e4f1cace1f4 | "sex"=>"F" | 2010-11-12 21:27:00+00 | 
 3 | Derek.Crenshaw@gmail.com | 5ab7bc159c6371c65b41059097ff0efe | "sex"=>"M" | 2009-03-08 03:06:00+00 | 
 4 | Sharif.Julian@yahoo.com | 9d38df22b71c8896137d363e29814e5f | "sex"=>"M" | 2010-11-20 10:58:00+00 | 
 5 | Zita.Breeding@gmail.com | 7a168d1d108d75da38ef9d03f388472d | "sex"=>"F" | 2009-08-11 23:33:00+01 | 
 6 | Samantha.Hedgpe@yahoo.com | e1293169f01a0448247414b715726956 | "sex"=>"F" | 2010-07-18 11:40:00+01 | 
 7 | Quinton.Gilpatrick@yahoo.com | 7c63f3c25ee52041c2b9aec3c21a90b6 | "sex"=>"M" | 2010-09-02 22:56:00+01 | 
 8 | Vivian.Westmoreland@yahoo.com | 100945c1684d6926dcacfcd967aedd9 | "sex"=>"F", "state"=>"South Carolina" | 2009-10-01 12:34:00+01 | 
 9 | Danny.Craves@gmail.com | 511e329996147ae68f83bab75b9733e | "sex"=>"M" | 2009-04-22 08:30:00+01 | 
10 | Edmund.Roles@yahoo.com | aeac2309a2b01e19177564126a6f8393 | "sex"=>"F", "state"=>"New York" | 2009-07-07 22:01:00+01 | 
11 | Shane11.Lichtensteing@aol.com | 9bac1402c6b7bf8a55b5654ae5f2db | "sex"=>"M" | 2009-05-22 01:18:00+01 | 

Command Prompt - psql -U postgres --dbname pgguide

12 | Romaine.Birdsell@aol.com | 4571853f5ee73e385ac152c765ad2915 | "sex"=>"F" | 2009-01-14 05:07:00+00 | 
13 | Zita.Luaring@yahoo.com | 7467fa832b2c45a15ad2c7093c963ea2 | "sex"=>"F" | 2009-02-04 14:49:00+00 | 
14 | Claud.Courineau@gmail.com | 82bc0c4e3fc1a90bac75dc7b8fabccc | "sex"=>"F" | 2009-08-17 19:48:00+01 | 
15 | Kali.Damore@yahoo.com | 66327b7500c1b4a115910260418fd582 | "sex"=>"F" | 2010-07-07 11:28:00+01 | 
16 | Graciela.Kubala@yahoo.com | 85dbdc9ff08c157d7d10555009ef8ff | "sex"=>"F" | 2010-08-19 06:42:00+01 | 
17 | Theresa.Edwin@yahoo.com | 87b2ae03da521142fd37676e6a3c376a | "sex"=>"M" | 2010-08-11 09:21:00+01 | 
18 | Ocella.Yoshimura@gmail.com | d68a6070ac1f18ce7a1bbaa9692c348 | "sex"=>"M" | 2010-07-23 17:03:00+01 | 
19 | Wynona.Greening@aol.com | 176c8186c6324925f6c274a69743e8f | "sex"=>"M" | 2009-05-24 15:25:00+01 | 
20 | Kim.Mcqueeney@gmail.com | 588169a56191c0f99b08e7a392e83ada | "sex"=>"M" | 2010-06-22 16:16:00+01 | 
21 | Cherry1.Tarnowski@gmail.com | 3598f1660fedede469f2c1cc146aa86 | "sex"=>"F" | 2009-01-26 09:56:00+00 | 
22 | Isabel.Breeding@gmail.com | a32fb3e28f4cea747d0eef30aaf9ae5 | "sex"=>"F" | 2010-07-11 14:28:00+01 | 
23 | Ivana.Kurth@yahoo.com | ca72fafa92a1ef152000b53e2532571 | "sex"=>"F" | 2010-06-25 09:36:00+01 | 
24 | Humberto.Jonsong@yahoo.com | 642a91737480d3b0bf221680633e9e3 | "sex"=>"M" | 2009-09-22 14:09:00+01 | 
25 | Ivana.Sosnowski@aol.com | f12880358430ec7ae192b041aa6ac05d | "sex"=>"M" | 2009-01-16 11:55:00+00 | 
26 | Courtney.Strayer@gmail.com | d80a950209c9f0b96c76648d4f5b8f7 | "sex"=>"M", "state"=>"Virginia" | 2009-07-19 07:08:00+01 | 
27 | Williams.Upson@gmail.com | de9a1iad16e0443955d38e4f6864d3c4 | "sex"=>"F" | 2010-08-10 06:48:00+01 | 
28 | Jeremiah.Buonocore@yahoo.com | 1994c611461fc9d11683b50e540d701 | "sex"=>"F" | 2009-03-19 07:49:00+00 | 
29 | Ocella.Roles@gmail.com | 80ee01c9064ed4c3e5893c35021d85 | "sex"=>"F", "state"=>"Virginia" | 2009-10-09 10:44:00+01 | 
30 | Salvatore.Arends@aol.com | 8c644b1f574238287f230fde0314664 | "sex"=>"M" | 2009-09-05 02:55:00+01 | 
31 | Layne.Sarver@aol.com | 296ca911a6fc78b4b3e75f927216cfd | "sex"=>"M" | 2010-09-26 09:00:00+01 | 
32 | Takako.Gilpatrick@aol.com | 3abe3e825f6e749dca1b8193d5f15215 | "sex"=>"M" | 2009-02-22 15:46:00+00 | 
33 | Russ.Mcclain@yahoo.com | cf17dc7c023e4a9f3fe6be05352aa57f | "sex"=>"F" | 2010-01-12 17:27:00+00 | 
34 | Claud.Westmoreland@aol.com | 63177eeef3e133a8ad646fd73c0ba | "sex"=>"M" | 2010-06-11 18:21:00+01 | 
35 | Derek.Knittel@gmail.com | ce3ce9650891124de7f449c84a33ff71 | "sex"=>"F" | 2010-08-16 22:09:00+01 | 
36 | Eleanor.Patnode@yahoo.com | c20912ab08921f869ee26724bdfc081 | "sex"=>"F", "state"=>"Florida" | 2010-06-06 02:27:00+01 | 
37 | Carmel.Buifer@aol.com | 15267c65da06c6fcd0c80f8a744d3 | "sex"=>"F", "state"=>"Florida" | 2009-06-06 21:13:00+01 | 
38 | Mauro.Pung@yahoo.com | 4e625168e5ea9bd548c383d20ecc9505 | "sex"=>"F", "state"=>"Illinois" | 2009-08-20 03:34:00+01 | 
39 | Sherilyn.Hamill@gmail.com | 2f313c4086182796f9f17d03c7f3312b | "sex"=>"M" | 2010-04-02 00:39:00+01 | 
40 | Glen.Lanphear@yahoo.com | 66565168a637a2c5f43bd4f5bf7e0313a | "sex"=>"M" | 2010-08-06 16:14:00+01 | 
41 | Stacia.Schraack@aol.com | 8a918b3f99c9d9aefb05d5d4fbc2ba07 | "sex"=>"M" | 2010-06-14 20:28:00+01 | 
42 | Tonette.Alba@gmail.com | 9e742176f6d41b88a4c77334267a8ac0 | "sex"=>"M" | 2009-12-28 10:21:00+00 | 
43 | Eve.Kump@yahoo.com | 300b9c560f5d45417961ef08f28498a | "sex"=>"M" | 2009-08-20 10:45:00+01 | 
44 | Shane11.Maxson@gmail.com | e47a8b0056427f189f146889d457f5c2 | "sex"=>"M" | 2009-11-21 06:28:00+00 | 
45 | Gudrun.Arends@gmail.com | 7350ba0760996aaf61080b43c66f4f9 | "sex"=>"F" | 2010-06-30 13:30:00+01 | 
46 | Angel.Lessley@yahoo.com | 970efafe901fff211538e536ad797443 | "sex"=>"F" | 2009-08-21 18:06:00+01 | 
47 | Harrison.Puett@yahoo.com | ff9e460aaca39a2c3b0d68043047826a | "sex"=>"M" | 2009-07-21 16:20:00+01 | 
48 | Granville.Hedgpe@yahoo.com | 87f0b9fd98e2a9b0d30bc1309936744cb | "sex"=>"M" | 2009-08-03 15:54:00+01 | 
49 | Samantha.Pellegrini@yahoo.com | 4e2a5f4b462636db0c75190c49f841822 | "sex"=>"M" | 2009-03-25 20:17:00+00 | 
50 | Man.Oilks@gmail.com | 0650f923e2abc4e417121d3d9ab37cc54 | "sex"=>"M" | 2009-10-08 23:43:00+01 | 

-- More --
```


Part 5 – Massive JS is installed. Pgguide is accessed using Massive; the tables 'users', 'products', 'purchases' and 'purchase_items' can be viewed using the following 'app.js' code as shown.



```
var Massive = require("massive")
, http = require("http")
, express = require("express")
, app = express();

/* database config */
var connectionString = "
postgres://postgres:Saadat123@localhost/pgguide";
var db = Massive.connectSync({connectionString :
connectionString});

/* users table */
db.users.find(function(err,res) {
  console.log(res);
});

/* products table */
db.products.find(function(err,res) {
  console.log(res);
});

/* purchases table */
db.purchases.find(function(err,res) {
  console.log(res);
});

/* purchase_items table */
db.purchase_items.find(function(err,res) {
  console.log(res);
});

/* listen on port 3000 */
var server = http.createServer(app);
server.listen(3000);
```

The following is what is shown when the app.js code is run to view all the tables at [once](#). *As the command prompt doesn't allow full scrolling, this is what is shown for all the tables.*

```
Command Prompt - node app.js
product_id: 20,
price: '14.99',
quantity: 4,
state: 'Delivered' },
anonymous {
  id: 60,
  purchase_id: 37,
  product_id: 14,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 61,
  purchase_id: 38,
  product_id: 10,
  price: '529.00',
  quantity: 1,
  state: 'Returned' },
anonymous {
  id: 62,
  purchase_id: 39,
  product_id: 2,
  price: '29.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 63,
  purchase_id: 40,
  product_id: 17,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 64,
  purchase_id: 41,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 65,
  purchase_id: 42,
  product_id: 14,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 66,
  purchase_id: 43,
  product_id: 6,
  price: '499.99',
  quantity: 2,
  state: 'Delivered' },
```

```
Command Prompt - node app.js
anonymous {
  id: 67,
  purchase_id: 43,
  product_id: 3,
  price: '27.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 68,
  purchase_id: 44,
  product_id: 10,
  price: '529.00',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 69,
  purchase_id: 44,
  product_id: 3,
  price: '27.99',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 70,
  purchase_id: 45,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 71,
  purchase_id: 46,
  product_id: 7,
  price: '899.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 72,
  purchase_id: 47,
  product_id: 12,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 73,
  purchase_id: 48,
  product_id: 3,
  price: '27.99',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 74,
  purchase_id: 49,
  product_id: 6,
```

Command Prompt - node app.js

```
price: '499.99',
quantity: 1,
state: 'Delivered' },
anonymous {
  id: 75,
  purchase_id: 49,
  product_id: 20,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 76,
  purchase_id: 50,
  product_id: 8,
  price: '108.00',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 77,
  purchase_id: 51,
  product_id: 7,
  price: '899.99',
  quantity: 1,
  state: 'Pending' },
anonymous {
  id: 78,
  purchase_id: 52,
  product_id: 9,
  price: '499.00',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 79,
  purchase_id: 53,
  product_id: 16,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 80,
  purchase_id: 54,
  product_id: 16,
  price: '14.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 81,
  purchase_id: 55,
  product_id: 4,
  price: '7.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
```

Command Prompt - node app.js

```
id: 82,
purchase_id: 55,
product_id: 15,
price: '9.99',
quantity: 1,
state: 'Delivered' },
anonymous {
  id: 83,
  purchase_id: 55,
  product_id: 19,
  price: '14.99',
  quantity: 5,
  state: 'Delivered' },
anonymous {
  id: 84,
  purchase_id: 56,
  product_id: 14,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 85,
  purchase_id: 57,
  product_id: 3,
  price: '27.99',
  quantity: 3,
  state: 'Delivered' },
anonymous {
  id: 86,
  purchase_id: 58,
  product_id: 9,
  price: '499.00',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 87,
  purchase_id: 58,
  product_id: 16,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 88,
  purchase_id: 59,
  product_id: 1,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 89,
  purchase_id: 60,
  product_id: 1,
  price: '9.99',
```

Command Prompt - node app.js

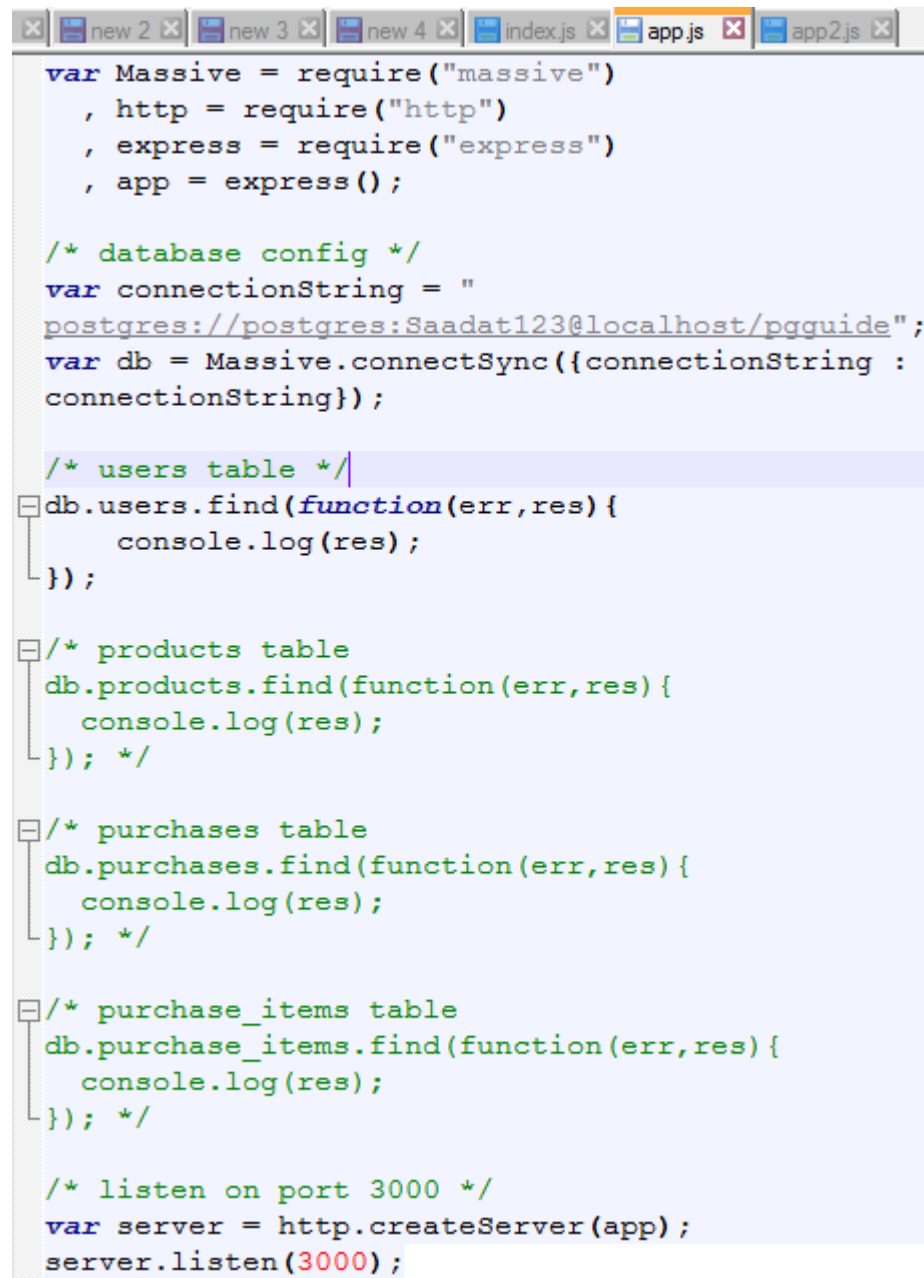
```
quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 90,
  purchase_id: 61,
  product_id: 2,
  price: '29.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 91,
  purchase_id: 61,
  product_id: 15,
  price: '9.99',
  quantity: 3,
  state: 'Delivered' },
anonymous {
  id: 92,
  purchase_id: 62,
  product_id: 14,
  price: '9.99',
  quantity: 5,
  state: 'Delivered' },
anonymous {
  id: 93,
  purchase_id: 63,
  product_id: 6,
  price: '499.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 94,
  purchase_id: 64,
  product_id: 20,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 95,
  purchase_id: 65,
  product_id: 15,
  price: '9.99',
  quantity: 1,
  state: 'Returned' },
anonymous {
  id: 96,
  purchase_id: 66,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 97,
```

Command Prompt - node app.js

```
quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 95,
  purchase_id: 65,
  product_id: 15,
  price: '9.99',
  quantity: 1,
  state: 'Returned' },
anonymous {
  id: 96,
  purchase_id: 66,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 97,
  purchase_id: 67,
  product_id: 11,
  price: '9.99',
  quantity: 2,
  state: 'Returned' },
anonymous {
  id: 98,
  purchase_id: 68,
  product_id: 11,
  price: '9.99',
  quantity: 3,
  state: 'Pending' },
anonymous {
  id: 99,
  purchase_id: 69,
  product_id: 12,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 100,
  purchase_id: 70,
  product_id: 4,
  price: '7.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 101,
  purchase_id: 71,
  product_id: 12,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
... 1357 more items ]
```

The following is shown when the table code is run separately for each table.

Users Table Code:



```
var Massive = require("massive")
, http = require("http")
, express = require("express")
, app = express();

/* database config */
var connectionString = "
postgres://postgres:Saadat123@localhost/pgguide";
var db = Massive.connectSync({connectionString :
connectionString});

/* users table */
db.users.find(function(err,res) {
  console.log(res);
});

/* products table
db.products.find(function(err,res) {
  console.log(res);
}); */

/* purchases table
db.purchases.find(function(err,res) {
  console.log(res);
}); */

/* purchase_items table
db.purchase_items.find(function(err,res) {
  console.log(res);
}); */

/* listen on port 3000 */
var server = http.createServer(app);
server.listen(3000);
```

Users Table Output:

```
Command Prompt - node app.js
email: 'Vivian.Mestmoreland@yahoo.com',
password: '180945c1684d6926dcafcacd967aedd9',
details: '"sex"=>"F", "state"=>"South Carolina"',
created_at: 2009-10-01T11:34:00.000Z,
deleted_at: null },
anonymous {
  id: 9,
  email: 'Danny.Crays@gmail.com',
  password: '511e3229996147ae68f83bab75b9733e',
  details: '"sex"=>"M"',
  created_at: 2009-04-22T07:30:00.000Z,
  deleted_at: null },
anonymous {
  id: 10,
  email: 'Edmund.Roles@yahoo.com',
  password: 'aeac2389a2b01e19177564126af8393',
  details: '"sex"=>"F", "state"=>"New York"',
  created_at: 2009-07-07T21:01:00.000Z,
  deleted_at: null },
anonymous {
  id: 11,
  email: 'Shanell.Lichtenstein@aol.com',
  password: '98ac14b2c6b7bef8a5b5654aee5f28b',
  details: '"sex"=>"M"',
  created_at: 2009-05-22T00:18:00.000Z,
  deleted_at: null },
anonymous {
  id: 12,
  email: 'Romaine.Birdsell@aol.com',
  password: '4571853f5ee73e305ac152c765ad2915',
  details: '"sex"=>"F"',
  created_at: 2009-01-14T05:07:00.000Z,
  deleted_at: null },
anonymous {
  id: 13,
  email: 'Zita.Luman@yahoo.com',
  password: '7467fa8332bc45a15ad2c7003c963ea2',
  details: null,
  created_at: 2009-02-04T14:49:00.000Z,
  deleted_at: null },
anonymous {
  id: 14,
  email: 'Claud.Cousineau@gmail.com',
  password: '82bcc0c4c3fc1a9bbae75dc7b8fabcccc',
  details: '"sex"=>"F"',
  created_at: 2009-08-17T18:48:00.000Z,
  deleted_at: null },
anonymous {
  id: 15,
  email: 'Kali.Damore@yahoo.com',
  password: '66327b7500c1b4a115910260418fd582',
  details: '"sex"=>"F"',
  created_at: 2010-07-07T10:28:00.000Z,
```

```
Command Prompt - node app.js
deleted_at: null },
anonymous {
  id: 16,
  email: 'Graciela.Kubala@yahoo.com',
  password: '85dbdc9ff08c157d7d10555009ef8ff',
  details: '"sex"=>"F"',
  created_at: 2010-08-19T05:42:00.000Z,
  deleted_at: null },
anonymous {
  id: 17,
  email: 'Theresia.Edwin@yahoo.com',
  password: '87b2ae03da521142fd3767e6a3c376a',
  details: '"sex"=>"M"',
  created_at: 2010-08-11T08:21:00.000Z,
  deleted_at: null },
anonymous {
  id: 18,
  email: 'Ozella.Yoshimura@gmail.com',
  password: 'df68a6070ac1f18ce7a16baa96922948',
  details: '"sex"=>"M"',
  created_at: 2010-07-23T16:03:00.000Z,
  deleted_at: null },
anonymous {
  id: 19,
  email: 'Wynona.Gresning@aol.com',
  password: '176c818bc66324925ff0cc274667e3e8f',
  details: '"sex"=>"M"',
  created_at: 2009-05-24T14:25:00.000Z,
  deleted_at: null },
anonymous {
  id: 20,
  email: 'Kimi.Mcqueeney@gmail.com',
  password: '588169a56191c0f99b08e7a392e03ada',
  details: null,
  created_at: 2010-06-22T15:16:00.000Z,
  deleted_at: null },
anonymous {
  id: 21,
  email: 'Cherry1.Tarnowski@gmail.com',
  password: '35981f660Fedede469fce21cc146aa86',
  details: null,
  created_at: 2009-01-26T09:56:00.000Z,
  deleted_at: null },
anonymous {
  id: 22,
  email: 'Isabel.Bresding@gmail.com',
  password: 'a32fbb3e28f4cea747d0eef30aaf9ae5',
  details: null,
  created_at: 2010-07-11T13:28:00.000Z,
  deleted_at: null },
anonymous {
  id: 23,
  email: 'Ivana.Kurth@yahoo.com',
```

```
Command Prompt - node app.js
password: 'ca72fafa92a1ef152006b53e2532571',
details: null,
created_at: 2010-06-25T08:36:00.000Z,
deleted_at: null },
anonymous {
  id: 24,
  email: 'Humberto.Jonson@yahoo.com',
  password: '642a9173748ed3dbb621689633ee9c3',
  details: null,
  created_at: 2009-09-23T13:09:00.000Z,
  deleted_at: null },
anonymous {
  id: 25,
  email: 'Ivana.Sosnowski@aol.com',
  password: 'f12980358430ee7ae192b041aa6ac05d',
  details: '"sex"=>"M"',
  created_at: 2009-01-16T11:55:00.000Z,
  deleted_at: null },
anonymous {
  id: 26,
  email: 'Cortney.Strayer@gmail.com',
  password: 'd80da950209cfffdb96c76648d4f5b8f7',
  details: '"sex"=>"W", "state"=>"Virginia"',
  created_at: 2009-07-19T06:08:00.000Z,
  deleted_at: null },
anonymous {
  id: 27,
  email: 'Williams.Upson@gmail.com',
  password: 'de9a71ad16e84395538e4f6864d3c4',
  details: '"sex"=>"F"',
  created_at: 2010-08-10T05:48:00.000Z,
  deleted_at: null },
anonymous {
  id: 28,
  email: 'Jeremiah.Buonocore@yahoo.com',
  password: '1994c6611461fc9d11683b50e540d701',
  details: null,
  created_at: 2009-03-19T07:49:00.000Z,
  deleted_at: null },
anonymous {
  id: 29,
  email: 'Ozella.Roles@gmail.com',
  password: '8bee01c9b64ed4ca3e68f3c3502eld85',
  details: null,
  created_at: 2009-10-09T09:44:00.000Z,
  deleted_at: null },
anonymous {
  id: 30,
  email: 'Salvatore.Arends@aol.com',
  password: '8c64e4bf1574238287f230fde0314664',
  details: '"sex"=>"F", "state"=>"Virginia"',
  created_at: 2009-09-05T01:55:00.000Z,
  deleted_at: null },
```

```
Command Prompt - node app.js
anonymous {
  id: 33,
  email: 'Russ.McClain@yahoo.com',
  password: 'cf17dc7c023e4a9f3fe6be05352aa57f',
  details: '"sex"=>"F"',
  created_at: 2010-01-12T17:27:00.000Z,
  deleted_at: null },
anonymous {
  id: 34,
  email: 'Claud.Westmoreland@aol.com',
  password: '631f77ceef3e513c8aad646fdd73c03a',
  details: null,
  created_at: 2010-06-11T17:21:00.000Z,
  deleted_at: null },
anonymous {
  id: 35,
  email: 'Derek.Knittel@gmail.com',
  password: 'ce3ce9650891124d7f449c84a33ff71',
  details: '"sex"=>"F"',
  created_at: 2010-08-16T21:09:00.000Z,
  deleted_at: null },
anonymous {
  id: 36,
  email: 'Eleanor.Patnode@yahoo.com',
  password: 'c20912ab068921f869ee26724bdfc081',
  details: '"sex"=>"F", "state"=>"Florida"',
  created_at: 2010-06-06T01:27:00.000Z,
  deleted_at: null },
anonymous {
  id: 37,
  email: 'Carmel.Bulfer@aol.com',
  password: '15267e5d8a86c6fcd10c80f8a744d3',
  details: '"sex"=>"F", "state"=>"Florida"',
  created_at: 2009-06-06T20:13:00.000Z,
  deleted_at: null },
anonymous {
  id: 38,
  email: 'Mauro.Pung@yahoo.com',
  password: '4e625168e5ea9bd548c303d20ecc95b5',
  details: '"sex"=>"F", "state"=>"Illinois"',
  created_at: 2009-08-20T02:34:00.000Z,
  deleted_at: null },
anonymous {
  id: 39,
  email: 'Sherilyn.Hamill@gmail.com',
  password: '2f313c4006182796faf17d83e7f3312b',
  details: '"sex"=>"M"',
  created_at: 2010-04-01T23:39:00.000Z,
  deleted_at: null },
anonymous {
  id: 40,
  email: 'Glen.Lanphear@yahoo.com',
  password: '66565168a637a3c5f43bdf5bf2e9313a',
```

```
Command Prompt - node app.js
details: null,
created_at: 2010-08-06T15:14:00.000Z,
deleted_at: null },
anonymous {
  id: 41,
  email: 'Stacia.Schrack@aol.com',
  password: '8a918b3f93c9d9aefbbd5de4fbc2ba07',
  details: '"sex">"M"',
  created_at: 2010-06-14T19:28:00.000Z,
  deleted_at: null },
anonymous {
  id: 42,
  email: 'Tonette.Alba@gmail.com',
  password: '9e742176f6d41b88a4c77334267a8ac0',
  details: null,
  created_at: 2009-12-28T10:21:00.000Z,
  deleted_at: null },
anonymous {
  id: 43,
  email: 'Eve.Kump@yahoo.com',
  password: '300b9c56bfe5d45417961ef08f28498a',
  details: '"sex">"M"',
  created_at: 2009-08-20T09:45:00.000Z,
  deleted_at: null },
anonymous {
  id: 44,
  email: 'Shanell.Maxson@gmail.com',
  password: 'e47a8b0056427f189f146889d457f5c2',
  details: '"sex">"M"',
  created_at: 2009-11-21T06:28:00.000Z,
  deleted_at: null },
anonymous {
  id: 45,
  email: 'Gudrun.Arends@gmail.com',
  password: '735dba8760996aafdb08b443c6fa4f9',
  details: null,
  created_at: 2010-06-30T12:30:00.000Z,
  deleted_at: null },
anonymous {
  id: 46,
  email: 'Angel.Lessley@yahoo.com',
  password: '970efafe901fff211538e536ad797443',
  details: '"sex">"F"',
  created_at: 2009-08-21T17:06:00.000Z,
  deleted_at: null },
anonymous {
  id: 47,
  email: 'Harrison.Puett@yahoo.com',
  password: 'ff9e460aaca39a2c3bbd68043047826a',
  details: '"sex">"M"',
  created_at: 2009-07-21T15:20:00.000Z,
  deleted_at: null },
anonymous {
```

```
Command Prompt - node app.js
details: '"sex">"M"',
created_at: 2009-08-20T09:45:00.000Z,
deleted_at: null },
anonymous {
  id: 44,
  email: 'Shanell.Maxson@gmail.com',
  password: 'e47a8b0056427f189f146889d457f5c2',
  details: '"sex">"M"',
  created_at: 2009-11-21T06:28:00.000Z,
  deleted_at: null },
anonymous {
  id: 45,
  email: 'Gudrun.Arends@gmail.com',
  password: '735dba8760996aafdb08b443c6fa4f9',
  details: null,
  created_at: 2010-06-30T12:30:00.000Z,
  deleted_at: null },
anonymous {
  id: 46,
  email: 'Angel.Lessley@yahoo.com',
  password: '970efafe901fff211538e536ad797443',
  details: '"sex">"F"',
  created_at: 2009-08-21T17:06:00.000Z,
  deleted_at: null },
anonymous {
  id: 47,
  email: 'Harrison.Puett@yahoo.com',
  password: 'ff9e460aaca39a2c3bbd68043047826a',
  details: '"sex">"M"',
  created_at: 2009-07-21T15:20:00.000Z,
  deleted_at: null },
anonymous {
  id: 48,
  email: 'Granville.Hedgpeth@gmail.com',
  password: '87f0bf098e2a9b8d30bc1309936744cb',
  details: null,
  created_at: 2009-08-03T14:54:00.000Z,
  deleted_at: null },
anonymous {
  id: 49,
  email: 'Samatha.Pellegrin@yahoo.com',
  password: '4e2b5f4b462636dbc7519bc49f841822',
  details: null,
  created_at: 2009-03-25T20:17:00.000Z,
  deleted_at: null },
anonymous {
  id: 50,
  email: 'Wan.Dilks@gmail.com',
  password: '0650f5923e2abce41721d3d9ab37cc54',
  details: '"sex">"M"',
  created_at: 2009-10-08T22:43:00.000Z,
  deleted_at: null } }
```


Products Table Code:

```
var Massive = require("massive")
, http = require("http")
, express = require("express")
, app = express();

/* database config */
var connectionString = "
postgres://postgres:Saadat123@localhost/pgguide";
var db = Massive.connectSync({connectionString :
connectionString});

/* users table
db.users.find(function(err,res){
    console.log(res);
}); */

/* products table */
db.products.find(function(err,res){
    console.log(res);
});

/* purchases table
db.purchases.find(function(err,res){
    console.log(res);
}); */

/* purchase_items table
db.purchase_items.find(function(err,res){
    console.log(res);
}); */

/* listen on port 3000 */
var server = http.createServer(app);
server.listen(3000);
```

Products Table Output:

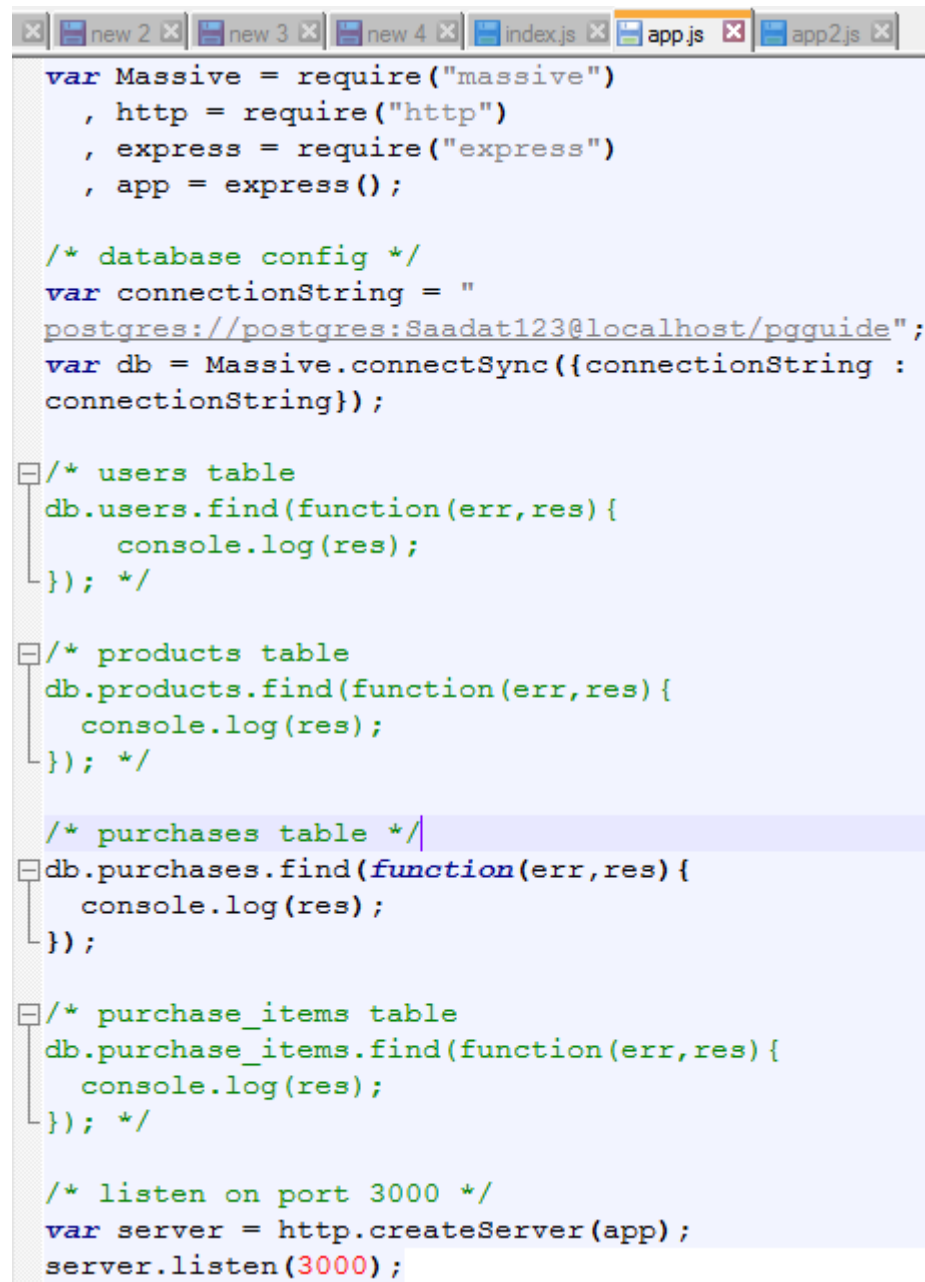
```
Command Prompt - node app.js
C:\Users\Saira\mycurl>node app.js
[ anonymous {
  id: 1,
  title: 'Dictionary',
  price: '9.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Book' ] },
anonymous {
  id: 2,
  title: 'Python Book',
  price: '29.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Book', 'Programming', 'Python' ] },
anonymous {
  id: 3,
  title: 'Ruby Book',
  price: '27.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Book', 'Programming', 'Ruby' ] },
anonymous {
  id: 4,
  title: 'Baby Book',
  price: '7.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Book', 'Children', 'Baby' ] },
anonymous {
  id: 5,
  title: 'Coloring Book',
  price: '5.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Book', 'Children' ] },
anonymous {
  id: 6,
  title: 'Desktop Computer',
  price: '499.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Technology' ] },
anonymous {
  id: 7,
  title: 'Laptop Computer',
  price: '899.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Technology' ] },
anonymous {
  id: 8,
```

```
Command Prompt - node app.js
  title: 'MP3 Player',
  price: '100.00',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Technology', 'Music' ] },
anonymous {
  id: 9,
  title: '42" LCD TV',
  price: '499.00',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Technology', 'TV' ] },
anonymous {
  id: 10,
  title: '42" Plasma TV',
  price: '529.00',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Technology', 'TV' ] },
anonymous {
  id: 11,
  title: 'Classical CD',
  price: '9.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Music' ] },
anonymous {
  id: 12,
  title: 'Holiday CD',
  price: '9.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Music' ] },
anonymous {
  id: 13,
  title: 'Country CD',
  price: '9.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Music' ] },
anonymous {
  id: 14,
  title: 'Pop CD',
  price: '9.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Music' ] },
anonymous {
  id: 15,
  title: 'Electronic CD',
  price: '9.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
```

Command Prompt - node app.js

```
tags: [ 'Music' ] },
anonymous {
  id: 16,
  title: 'Comedy Movie',
  price: '14.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Movie', 'Comedy' ] },
anonymous {
  id: 17,
  title: 'Documentary',
  price: '14.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Movie' ] },
anonymous {
  id: 18,
  title: 'Romantic',
  price: '14.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Movie' ] },
anonymous {
  id: 19,
  title: 'Drama',
  price: '14.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Movie' ] },
anonymous {
  id: 20,
  title: 'Action',
  price: '14.99',
  created_at: 2011-01-01T20:00:00.000Z,
  deleted_at: null,
  tags: [ 'Movie' ] } ]
```

Purchases Table Code:



```
var Massive = require("massive")
, http = require("http")
, express = require("express")
, app = express();

/* database config */
var connectionString = "
postgres://postgres:Saadat123@localhost/pgguide";
var db = Massive.connectSync({connectionString :
connectionString});

/* users table
db.users.find(function(err,res) {
  console.log(res);
}); */

/* products table
db.products.find(function(err,res) {
  console.log(res);
}); */

/* purchases table */
db.purchases.find(function(err,res) {
  console.log(res);
});

/* purchase_items table
db.purchase_items.find(function(err,res) {
  console.log(res);
}); */

/* listen on port 3000 */
var server = http.createServer(app);
server.listen(3000);
```

Purchases Table Output:

```
Command Prompt - node app.js
zipcode: 50135,
user_id: 13 },
anonymous {
  id: 64,
  created_at: 2011-10-06T03:50:00.000Z,
  name: 'Nana Arends',
  address: '6812 43rd St.',
  state: 'SC',
  zipcode: 48227,
  user_id: 16 },
anonymous {
  id: 65,
  created_at: 2011-07-06T17:51:00.000Z,
  name: 'Brandon Roth',
  address: '7583 35th St.42nd Ave.',
  state: 'TX',
  zipcode: 17570,
  user_id: 29 },
anonymous {
  id: 66,
  created_at: 2011-09-04T10:32:00.000Z,
  name: 'Graig Sturgill',
  address: '8547 45th St.',
  state: 'CO',
  zipcode: 67015,
  user_id: 29 },
anonymous {
  id: 67,
  created_at: 2011-12-29T12:45:00.000Z,
  name: 'Lawerence Roff',
  address: '8555 31st St.',
  state: 'WY',
  zipcode: 60022,
  user_id: 35 },
anonymous {
  id: 68,
  created_at: 2011-04-29T20:05:00.000Z,
  name: 'Jenee Haefner',
  address: '2232 43rd St.',
  state: 'FL',
  zipcode: 51490,
  user_id: 20 },
anonymous {
  id: 69,
  created_at: 2011-03-29T21:35:00.000Z,
  name: 'Karole Calico',
  address: '6659 Washington Ave.',
  state: 'VA',
  zipcode: 58202,
  user_id: 14 },
anonymous {
  id: 70,
  created_at: 2011-04-07T10:43:00.000Z,
```

```
Command Prompt - node app.js
name: 'Buddy Doyel',
address: '656 35th St.42nd Ave.',
state: 'FL',
zipcode: 89794,
user_id: 29 },
anonymous {
  id: 71,
  created_at: 2011-07-26T14:00:00.000Z,
  name: 'Orcelia Selden',
  address: '4083 0th Ave.',
  state: 'GA',
  zipcode: 28335,
  user_id: 37 },
anonymous {
  id: 72,
  created_at: 2011-06-10T09:18:00.000Z,
  name: 'Mauro Allbright',
  address: '9344 44th Ave.',
  state: 'IL',
  zipcode: 47037,
  user_id: 7 },
anonymous {
  id: 73,
  created_at: 2011-03-01T16:56:00.000Z,
  name: 'Salvatore Kimball',
  address: '8181 10th Ave.',
  state: 'CO',
  zipcode: 11819,
  user_id: 10 },
anonymous {
  id: 74,
  created_at: 2011-10-31T10:51:00.000Z,
  name: 'Nana Suits',
  address: '6844 45th St.',
  state: 'WY',
  zipcode: 45801,
  user_id: 23 },
anonymous {
  id: 75,
  created_at: 2011-12-25T03:13:00.000Z,
  name: 'Minerva li',
  address: '5546 31st St.',
  state: 'FL',
  zipcode: 37071,
  user_id: 12 },
anonymous {
  id: 76,
  created_at: 2011-01-24T14:13:00.000Z,
  name: 'Georgina Crissman',
  address: '2534 35th St.42nd Ave.',
  state: 'SC',
  zipcode: 92320,
  user_id: 26 },
```

Lab 1
Saira Barlas
C12809080

Command Prompt - node app.js

```
anonymous {
  id: 77,
  created_at: 2011-12-22T21:08:00.000Z,
  name: 'Tommie Ange',
  address: '4651 31st St.',
  state: 'NY',
  zipcode: 43689,
  user_id: 44 },
anonymous {
  id: 78,
  created_at: 2011-04-21T07:52:00.000Z,
  name: 'Kymberly Ange',
  address: '7788 44th Ave.',
  state: 'VA',
  zipcode: 17138,
  user_id: 3 },
anonymous {
  id: 79,
  created_at: 2011-05-18T04:38:00.000Z,
  name: 'Reed Larimer',
  address: '4937 Washington Ave.',
  state: 'NY',
  zipcode: 53172,
  user_id: 16 },
anonymous {
  id: 80,
  created_at: 2011-08-27T20:03:00.000Z,
  name: 'Carmel Letellier',
  address: '8915 Washington Ave.',
  state: 'FL',
  zipcode: 76107,
  user_id: 16 },
anonymous {
  id: 81,
  created_at: 2011-11-04T11:56:00.000Z,
  name: 'Colleen Seabaugh',
  address: '6198 California St.',
  state: 'TX',
  zipcode: 25936,
  user_id: 20 },
anonymous {
  id: 82,
  created_at: 2011-11-26T16:47:00.000Z,
  name: 'Granville Blumen',
  address: '7705 MLK Ave.',
  state: 'WY',
  zipcode: 21361,
  user_id: 23 },
anonymous {
  id: 83,
  created_at: 2011-01-28T23:07:00.000Z,
  name: 'Brady Durio',
  address: '7813 45th St.',
```

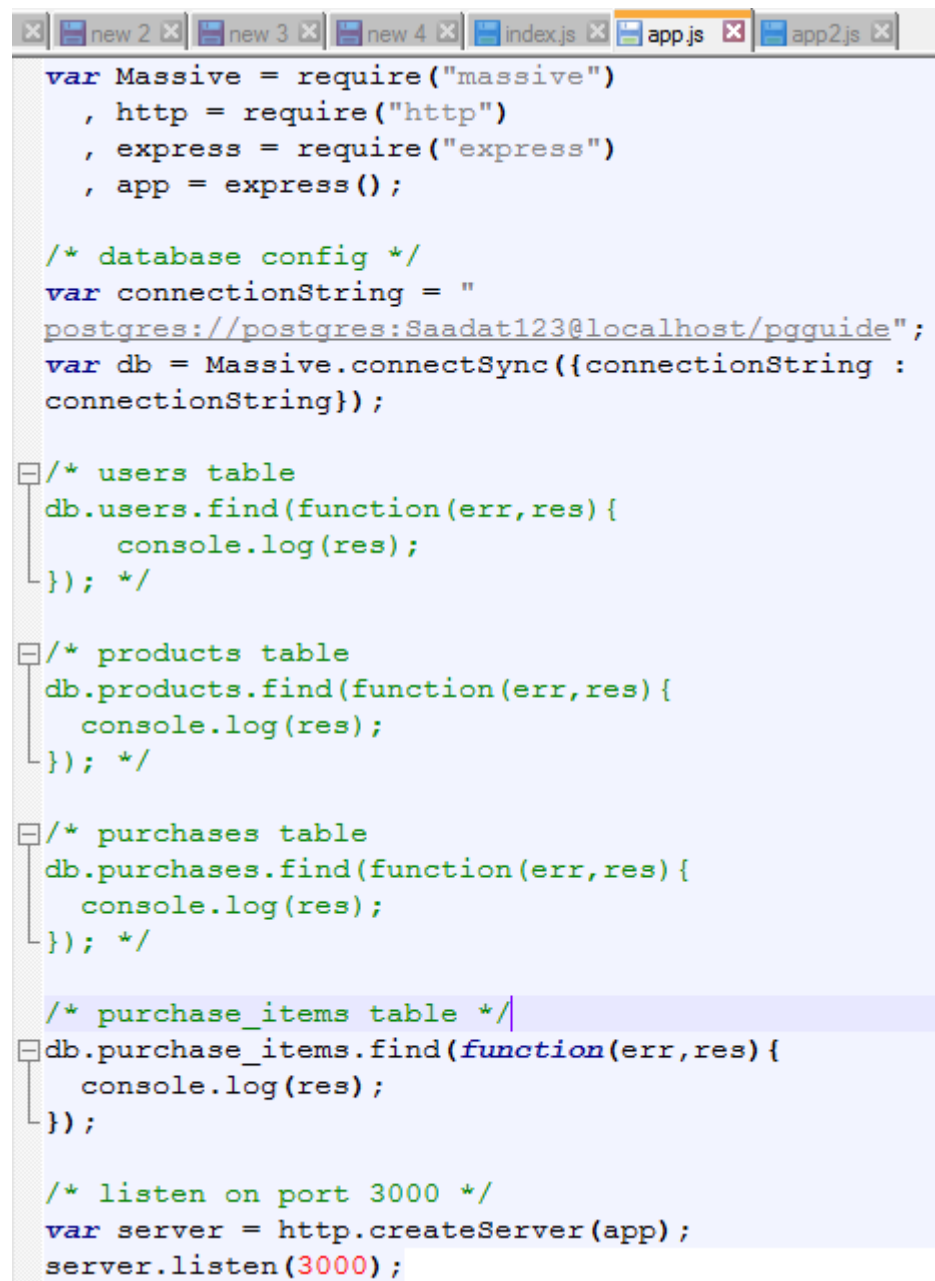
Command Prompt - node app.js

```
state: 'WA',
zipcode: 15632,
user_id: 8 },
anonymous {
  id: 84,
  created_at: 2011-11-22T20:47:00.000Z,
  name: 'Graciela Kiser',
  address: '3266 California St.',
  state: 'NY',
  zipcode: 48432,
  user_id: 13 },
anonymous {
  id: 85,
  created_at: 2011-05-01T22:45:00.000Z,
  name: 'Angel Lesane',
  address: '2310 MLK Ave.',
  state: 'FL',
  zipcode: 93225,
  user_id: 15 },
anonymous {
  id: 86,
  created_at: 2011-03-18T09:04:00.000Z,
  name: 'Shawanda Ange',
  address: '5504 8th Ave.',
  state: 'WA',
  zipcode: 28528,
  user_id: 26 },
anonymous {
  id: 87,
  created_at: 2011-03-31T20:54:00.000Z,
  name: 'Samatha Dougal',
  address: '7052 35th St.42nd Ave.',
  state: 'NY',
  zipcode: 36717,
  user_id: 15 },
anonymous {
  id: 88,
  created_at: 2011-08-18T00:43:00.000Z,
  name: 'Dee Luman',
  address: '7214 10th Ave.',
  state: 'WY',
  zipcode: 35245,
  user_id: 37 },
anonymous {
  id: 89,
  created_at: 2011-08-04T04:14:00.000Z,
  name: 'Rolfe Greshaw',
  address: '5857 43rd St.',
  state: 'TX',
  zipcode: 21037,
  user_id: 7 },
anonymous {
  id: 90,
```

```
Command Prompt - node app.js
created_at: 2011-11-24T19:35:00.000Z,
name: 'Irasa Disney',
address: '2848 MLK Ave.',
state: 'VA',
zipcode: 73667,
user_id: 44 },
anonymous {
  id: 91,
  created_at: 2011-11-13T21:18:00.000Z,
  name: 'Letitia Strayer',
  address: '4441 35th St.42nd Ave.',
  state: 'SC',
  zipcode: 14491,
  user_id: 8 },
anonymous {
  id: 92,
  created_at: 2011-04-14T21:12:00.000Z,
  name: 'Angel Benedetto',
  address: '4875 35th St.42nd Ave.',
  state: 'WA',
  zipcode: 30254,
  user_id: 18 },
anonymous {
  id: 93,
  created_at: 2011-06-12T18:43:00.000Z,
  name: 'Claud Vasko',
  address: '7661 8th Ave.',
  state: 'WY',
  zipcode: 10935,
  user_id: 32 },
anonymous {
  id: 94,
  created_at: 2011-05-12T20:46:00.000Z,
  name: 'Berta Fretz',
  address: '272 45th St.',
  state: 'FL',
  zipcode: 36777,
  user_id: 48 },
anonymous {
  id: 95,
  created_at: 2011-07-16T22:41:00.000Z,
  name: 'Johnathan Pressey',
  address: '1162 44th Ave.',
  state: 'SC',
  zipcode: 46110,
  user_id: 38 },
anonymous {
  id: 96,
  created_at: 2011-02-12T19:30:00.000Z,
  name: 'Brady McClain',
  address: '3235 Washington Ave.',
  state: 'IL',
  zipcode: 31913,
  user_id: 23 },
anonymous {
  id: 97,
  created_at: 2011-03-23T14:11:00.000Z,
  name: 'Theresia Lesane',
  address: '2797 44th Ave.',
  state: 'GA',
  zipcode: 67585,
  user_id: 23 },
anonymous {
  id: 98,
  created_at: 2011-07-23T13:01:00.000Z,
  name: 'Lawerence Senko',
  address: '1528 31st St.',
  state: 'NY',
  zipcode: 49526,
  user_id: 49 },
anonymous {
  id: 99,
  created_at: 2011-11-20T05:41:00.000Z,
  name: 'Rivka Scharf',
  address: '7255 10th Ave.',
  state: 'TX',
  zipcode: 59794,
  user_id: 36 },
anonymous {
  id: 100,
  created_at: 2011-09-12T04:07:00.000Z,
  name: 'Rubie Hassink',
  address: '4864 10th Ave.',
  state: 'CO',
  zipcode: 35894,
  user_id: 12 },
... 900 more items ]
```

```
Command Prompt - node app.js
state: 'FL',
zipcode: 36777,
user_id: 48 },
anonymous {
  id: 95,
  created_at: 2011-07-16T22:41:00.000Z,
  name: 'Johnathan Pressey',
  address: '1162 44th Ave.',
  state: 'SC',
  zipcode: 46110,
  user_id: 38 },
anonymous {
  id: 96,
  created_at: 2011-02-12T19:30:00.000Z,
  name: 'Brady McClain',
  address: '3235 Washington Ave.',
  state: 'IL',
  zipcode: 31913,
  user_id: 23 },
anonymous {
  id: 97,
  created_at: 2011-03-23T14:11:00.000Z,
  name: 'Theresia Lesane',
  address: '2797 44th Ave.',
  state: 'GA',
  zipcode: 67585,
  user_id: 23 },
anonymous {
  id: 98,
  created_at: 2011-07-23T13:01:00.000Z,
  name: 'Lawerence Senko',
  address: '1528 31st St.',
  state: 'NY',
  zipcode: 49526,
  user_id: 49 },
anonymous {
  id: 99,
  created_at: 2011-11-20T05:41:00.000Z,
  name: 'Rivka Scharf',
  address: '7255 10th Ave.',
  state: 'TX',
  zipcode: 59794,
  user_id: 36 },
anonymous {
  id: 100,
  created_at: 2011-09-12T04:07:00.000Z,
  name: 'Rubie Hassink',
  address: '4864 10th Ave.',
  state: 'CO',
  zipcode: 35894,
  user_id: 12 },
... 900 more items ]
```

Purchase Items Table Code:



```
var Massive = require("massive")
, http = require("http")
, express = require("express")
, app = express();

/* database config */
var connectionString = "
postgres://postgres:Saadat123@localhost/pgguide";
var db = Massive.connectSync({connectionString :
connectionString});

/* users table
db.users.find(function(err,res){
  console.log(res);
}); */

/* products table
db.products.find(function(err,res){
  console.log(res);
}); */

/* purchases table
db.purchases.find(function(err,res){
  console.log(res);
}); */

/* purchase_items table */
db.purchase_items.find(function(err,res){
  console.log(res);
});

/* listen on port 3000 */
var server = http.createServer(app);
server.listen(3000);
```


Purchase Items Table Output:

```
Command Prompt - node app.js
product_id: 20,
price: '14.99',
quantity: 4,
state: 'Delivered' },
anonymous {
  id: 60,
  purchase_id: 37,
  product_id: 14,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 61,
  purchase_id: 38,
  product_id: 10,
  price: '529.00',
  quantity: 1,
  state: 'Returned' },
anonymous {
  id: 62,
  purchase_id: 39,
  product_id: 2,
  price: '29.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 63,
  purchase_id: 40,
  product_id: 17,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 64,
  purchase_id: 41,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 65,
  purchase_id: 42,
  product_id: 14,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 66,
  purchase_id: 43,
  product_id: 6,
  price: '499.99',
  quantity: 2,
  state: 'Delivered' },
```

```
Command Prompt - node app.js
anonymous {
  id: 67,
  purchase_id: 43,
  product_id: 3,
  price: '27.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 68,
  purchase_id: 44,
  product_id: 10,
  price: '529.00',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 69,
  purchase_id: 44,
  product_id: 3,
  price: '27.99',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 70,
  purchase_id: 45,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 71,
  purchase_id: 46,
  product_id: 7,
  price: '899.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 72,
  purchase_id: 47,
  product_id: 12,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 73,
  purchase_id: 48,
  product_id: 3,
  price: '27.99',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 74,
  purchase_id: 49,
  product_id: 6,
```

```
Command Prompt - node app.js
price: '499.99',
quantity: 1,
state: 'Delivered' },
anonymous {
  id: 75,
  purchase_id: 49,
  product_id: 20,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 76,
  purchase_id: 50,
  product_id: 8,
  price: '108.00',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 77,
  purchase_id: 51,
  product_id: 7,
  price: '899.99',
  quantity: 1,
  state: 'Pending' },
anonymous {
  id: 78,
  purchase_id: 52,
  product_id: 9,
  price: '499.00',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 79,
  purchase_id: 53,
  product_id: 16,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 80,
  purchase_id: 54,
  product_id: 16,
  price: '14.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 81,
  purchase_id: 55,
  product_id: 4,
  price: '7.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
```

```
Command Prompt - node app.js
  id: 82,
  purchase_id: 55,
  product_id: 15,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 83,
  purchase_id: 55,
  product_id: 19,
  price: '14.99',
  quantity: 5,
  state: 'Delivered' },
anonymous {
  id: 84,
  purchase_id: 56,
  product_id: 14,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 85,
  purchase_id: 57,
  product_id: 3,
  price: '27.99',
  quantity: 3,
  state: 'Delivered' },
anonymous {
  id: 86,
  purchase_id: 58,
  product_id: 9,
  price: '499.00',
  quantity: 4,
  state: 'Delivered' },
anonymous {
  id: 87,
  purchase_id: 58,
  product_id: 16,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 88,
  purchase_id: 59,
  product_id: 1,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 89,
  purchase_id: 60,
  product_id: 1,
  price: '9.99',
```

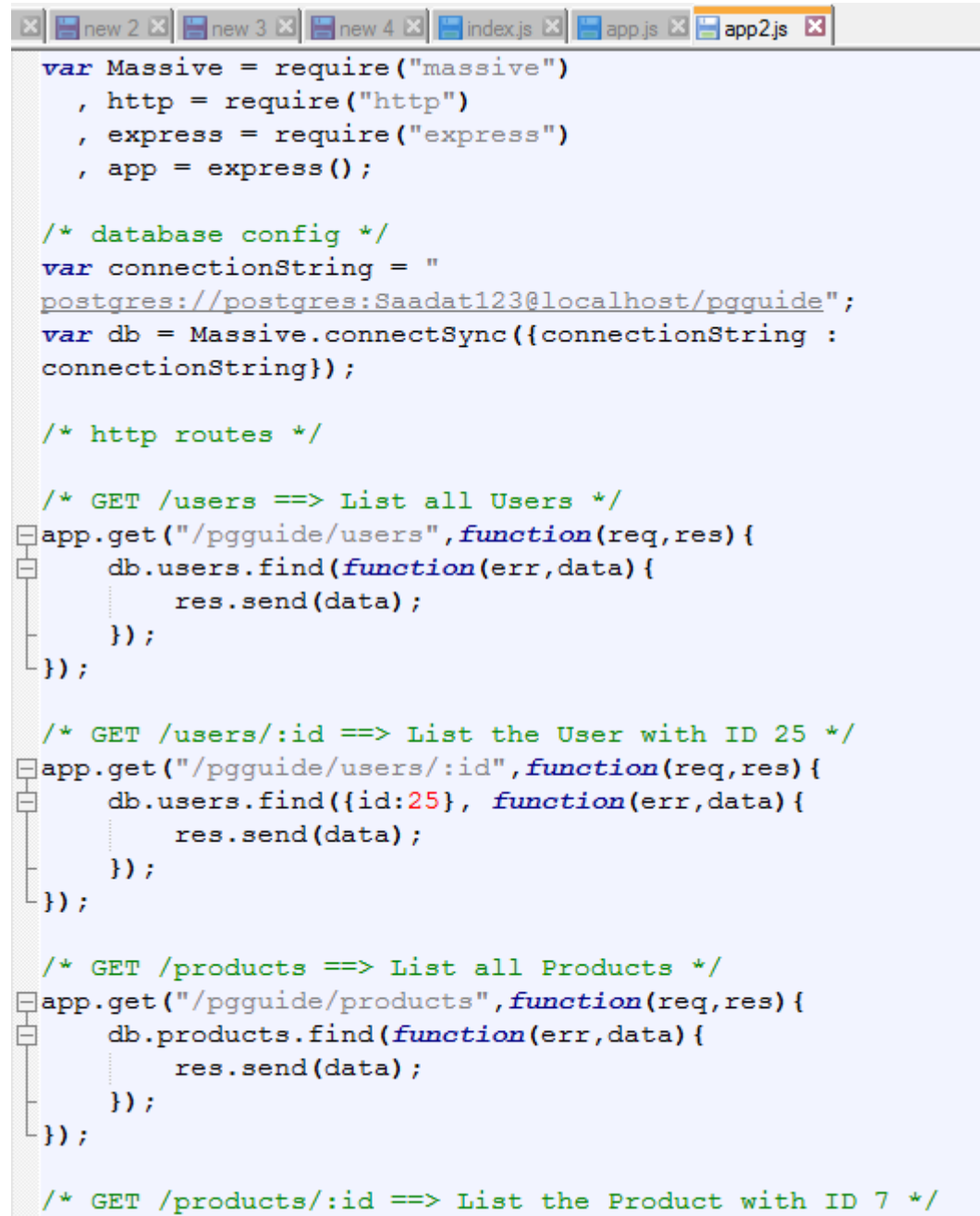
```
Command Prompt - node app.js
quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 90,
  purchase_id: 61,
  product_id: 2,
  price: '29.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 91,
  purchase_id: 61,
  product_id: 15,
  price: '9.99',
  quantity: 3,
  state: 'Delivered' },
anonymous {
  id: 92,
  purchase_id: 62,
  product_id: 14,
  price: '9.99',
  quantity: 5,
  state: 'Delivered' },
anonymous {
  id: 93,
  purchase_id: 63,
  product_id: 6,
  price: '499.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 94,
  purchase_id: 64,
  product_id: 20,
  price: '14.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 95,
  purchase_id: 65,
  product_id: 15,
  price: '9.99',
  quantity: 1,
  state: 'Returned' },
anonymous {
  id: 96,
  purchase_id: 66,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 97,
```

```
Command Prompt - node app.js
quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 95,
  purchase_id: 65,
  product_id: 15,
  price: '9.99',
  quantity: 1,
  state: 'Returned' },
anonymous {
  id: 96,
  purchase_id: 66,
  product_id: 12,
  price: '9.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 97,
  purchase_id: 67,
  product_id: 11,
  price: '9.99',
  quantity: 2,
  state: 'Returned' },
anonymous {
  id: 98,
  purchase_id: 68,
  product_id: 11,
  price: '9.99',
  quantity: 3,
  state: 'Pending' },
anonymous {
  id: 99,
  purchase_id: 69,
  product_id: 12,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
anonymous {
  id: 100,
  purchase_id: 70,
  product_id: 4,
  price: '7.99',
  quantity: 1,
  state: 'Delivered' },
anonymous {
  id: 101,
  purchase_id: 71,
  product_id: 12,
  price: '9.99',
  quantity: 2,
  state: 'Delivered' },
... 1357 more items ]
```

Part 6 – Node, Express and Massive are altogether used to produce the following HTTP API Endpoints which generate the following JSON documents.

Code in 'app2.js' file was used to display all the endpoints.

Code:



```
var Massive = require("massive")
, http = require("http")
, express = require("express")
, app = express();

/* database config */
var connectionString = "
postgres://postgres:Saadat123@localhost/pgguide";
var db = Massive.connectSync({connectionString :
connectionString});

/* http routes */

/* GET /users ==> List all Users */
app.get("/pgguide/users",function(req,res) {
  db.users.find(function(err,data) {
    res.send(data);
  });
});

/* GET /users/:id ==> List the User with ID 25 */
app.get("/pgguide/users/:id",function(req,res) {
  db.users.find({id:25}, function(err,data) {
    res.send(data);
  });
});

/* GET /products ==> List all Products */
app.get("/pgguide/products",function(req,res) {
  db.products.find(function(err,data) {
    res.send(data);
  });
});

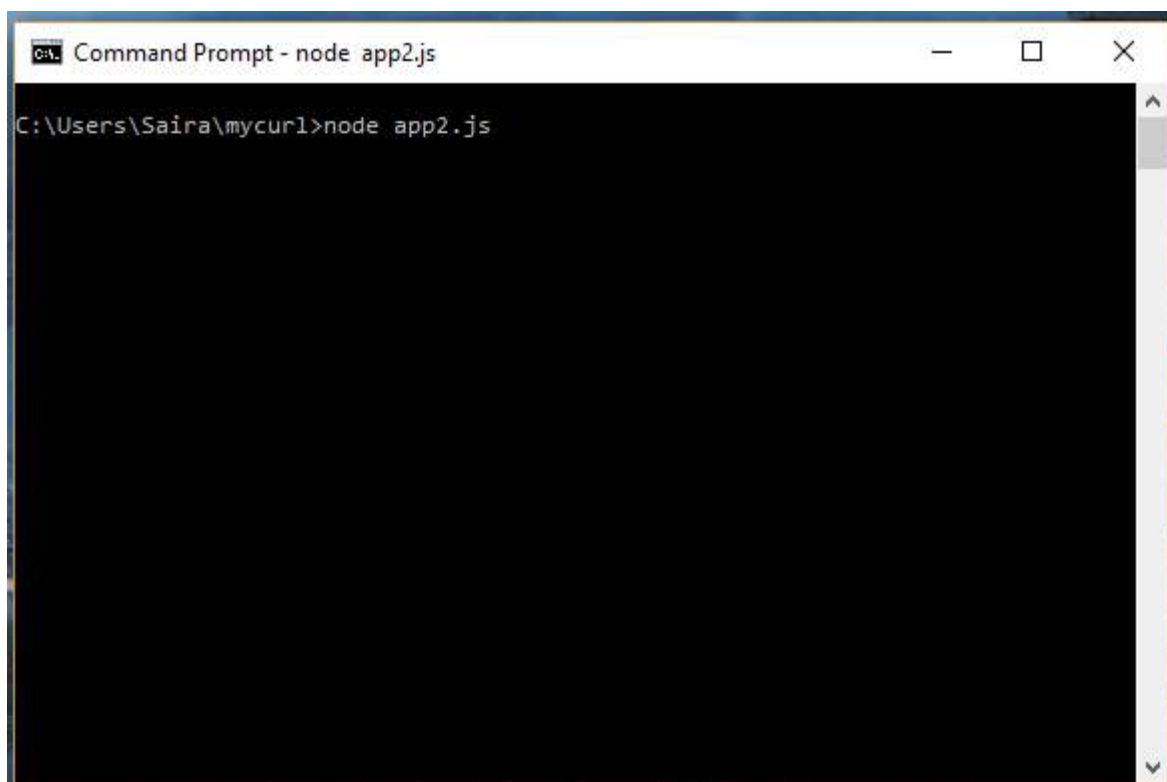
/* GET /products/:id ==> List the Product with ID 7 */
```

```
app.get("/pggguide/products/:id",function(req,res){
  db.products.find({id:7}, function(err,data){
    res.send(data);
  });
});

/* GET /purchases ==> List all Purchases */
app.get("/pggguide/purchases",function(req,res){
  db.purchases.find(function(err,data){
    res.send(data);
  });
});

/* GET /purchases/:id ==> List the Purchase with ID 21 */
app.get("/pggguide/purchases/:id",function(req,res){
  db.purchases.find({id:21}, function(err,data){
    res.send(data);
  });
});

/* listen on port 3000 */
var server = http.createServer(app);
server.listen(3000);
```



```
C:\Users\Saira\mycurl>node app2.js
```

GET /users output:

```
localhost:3000/pgguide/users

[{"id":1,"email":"Earlean.Bonaccii@yahoo.com","password":"029761dd44fec0b14825843ad0df6ace","details":null,"created_at":"2009-12-20T20:36:00.000Z","deleted_at":null},
{"id":2,"email":"Evelyn.Patnode@gmail.com","password":"d6678656644a3f44023f90e4fface1f4","details":{"sex":"M","created_at":"2010-11-12T21:27:00.000Z","deleted_at":null},
{"id":3,"email":"Derek.Crenshaw@gmail.com","password":"5ab7b0c159c0371c03b41059097ff0efe","details":{"sex":"F","created_at":"2009-03-08T03:06:00.000Z","deleted_at":null},
{"id":4,"email":"Shari.Juliano@yahoo.com","password":"9e3e0f21b71c098137d361e29814e6f","details":{"sex":"M","created_at":"2010-11-20T10:58:00.000Z","deleted_at":null},
{"id":5,"email":"Zita.Breeding@gmail.com","password":"7a1c8d1d180d75d3e8fb00f338472d","details":null,"created_at":"2009-08-11T22:35:00.000Z","deleted_at":null},
{"id":6,"email":"Sometha.Hedgpath@yahoo.com","password":"e129316bf01b0440241414b15726956","details":{"sex":"F","created_at":"2010-07-18T10:48:00.000Z","deleted_at":null},
{"id":7,"email":"Quinton.Gilpatrick@yahoo.com","password":"7c63f5c25e52041c2b9a3c3c21a9eb6","details":{"sex":"M","created_at":"2010-09-02T21:56:00.000Z","deleted_at":null},
{"id":8,"email":"Vivian.Nestmoreland@yahoo.com","password":"100945c1684d6926dcfcac8067aedd9","details":{"sex":"F","state":"South Carolina","created_at":"2009-10-01T11:34:00.000Z","deleted_at":null},
{"id":9,"email":"Danny.Craves@gmail.com","password":"511e32999e147a8e8f83bab75b9733e","details":{"sex":"M","created_at":"2009-04-22T07:30:00.000Z","deleted_at":null},
{"id":10,"email":"Edmund.Roles@yahoo.com","password":"aeac2309a2b01e19177564126a6f8393","details":{"sex":"F","state":"New York","created_at":"2009-07-07T21:01:00.000Z","deleted_at":null},
{"id":11,"email":"Shanell.lichtenstern@aol.com","password":"98ac1d02c6b7bfae5b5654aebcf28b","details":{"sex":"M","created_at":"2009-05-22T00:18:00.000Z","deleted_at":null},
{"id":12,"email":"Romaine.Birdsell@aol.com","password":"4571853f5ee73a305ac152c765ad2015","details":{"sex":"F","created_at":"2009-01-14T05:07:00.000Z","deleted_at":null},
{"id":13,"email":"Zita.Lunan@yahoo.com","password":"7467f48332bc45e15ad2c7803c963ee2","details":null,"created_at":"2009-02-04T14:49:00.000Z","deleted_at":null},
{"id":14,"email":"Claud.Cousineau@gmail.com","password":"82bcb0c4c3f1a9bbae75dc78fabccc","details":{"sex":"F","created_at":"2009-08-17T18:48:00.000Z","deleted_at":null},
{"id":15,"email":"Kelli.Damore@yahoo.com","password":"60327b7500c1b4e115910260418fd582","details":{"sex":"F","created_at":"2010-07-07T10:28:00.000Z","deleted_at":null},
{"id":16,"email":"Graciela.Kubala@yahoo.com","password":"85dbdc9ff08c157d7d105500e9eff","details":{"sex":"F","created_at":"2010-08-19T05:42:00.000Z","deleted_at":null},
{"id":17,"email":"Theresa.Fodiny@yahoo.com","password":"87b2ae03da51142f637676e6a3376a","details":{"sex":"M","created_at":"2010-08-11T08:21:00.000Z","deleted_at":null},
{"id":18,"email":"Ocella.Voshmur@gmail.com","password":"d4f6e60706c1f18c67a1d0eae6922948","details":{"sex":"M","created_at":"2010-07-23T16:03:00.000Z","deleted_at":null},
{"id":19,"email":"Wynona.Greening@aol.com","password":"176c818b06324925ffac27467c3e9f","details":{"sex":"M","created_at":"2009-05-24T14:25:00.000Z","deleted_at":null},
{"id":20,"email":"Kimi.Mcqueeney@gmail.com","password":"588169a56191c9f9908e7a592e03ada","details":null,"created_at":"2010-06-22T15:16:00.000Z","deleted_at":null},
{"id":21,"email":"Cherryl.Tarnowski@gmail.com","password":"35981f660fedede469fce21cc146ae86","details":null,"created_at":"2009-01-26T09:56:00.000Z","deleted_at":null},
{"id":22,"email":"Isabel.Breeding@gmail.com","password":"a32fbb3e28f4cea747d0eef30aaf9ae5","details":null,"created_at":"2010-07-11T13:28:00.000Z","deleted_at":null},
{"id":23,"email":"Ivana.Kurth@yahoo.com","password":"ca72fafe02afe152006b53e2532571","details":null,"created_at":"2010-06-25T08:36:00.000Z","deleted_at":null},
{"id":24,"email":"Humberto.Jonson@yahoo.com","password":"642a9173748d3bbf62168963ae9c3","details":null,"created_at":"2009-09-23T13:09:00.000Z","deleted_at":null},
{"id":25,"email":"Ivana.Sosnowski@aol.com","password":"f12980358430ee7ae192b641aa6ac85d","details":{"sex":"M","created_at":"2009-01-16T11:55:00.000Z","deleted_at":null},
{"id":26,"email":"Cortney.Strayer@gmail.com","password":"d90ae50209cfdb96c76648d4f5b0f7","details":{"sex":"F","state":"Virginia","created_at":"2009-07-19T06:08:00.000Z","deleted_at":null},
{"id":27,"email":"Williams.Upson@gmail.com","password":"de9a71ad10e043955d3e84f6864d3c4","details":{"sex":"F","created_at":"2010-08-10T05:48:00.000Z","deleted_at":null},
{"id":28,"email":"Jeremiah.Buonocore@yahoo.com","password":"1994c6611461fc9d11683b50e540d701","details":null,"created_at":"2009-03-19T07:43:00.000Z","deleted_at":null},
{"id":29,"email":"Ocella.Roles@gmail.com","password":"8bee01c9b64e4dca3e68f3c350e1d85","details":null,"created_at":"2009-10-09T09:44:00.000Z","deleted_at":null},
{"id":30,"email":"Salvatore.Arends@aol.com","password":"8c04e4bf1574238287f130fde0314664","details":{"sex":"F","state":"Virginia","created_at":"2009-09-05T01:55:00.000Z","deleted_at":null},
{"id":31,"email":"Layne.Sarver@yahoo.com","password":"296ca11aefc78b4b3e75f927c1bfcfd","details":{"sex":"M","created_at":"2010-09-26T08:00:00.000Z","deleted_at":null},
{"id":32,"email":"Takako.Gilpatrick@aol.com","password":"3ab3e825f6e7949dca1819365f1515","details":{"sex":"M","created_at":"2009-02-22T15:46:00.000Z","deleted_at":null},
{"id":33,"email":"Russ.McClain@yahoo.com","password":"cf17dc7c023e4a9f3f6b0e8532ae57f","details":{"sex":"F","created_at":"2010-01-12T17:27:00.000Z","deleted_at":null},
{"id":34,"email":"Claud.Mcstearland@aol.com","password":"631f77ceef3e513c8a0d46fdd73c03a","details":null,"created_at":"2010-08-11T17:21:00.000Z","deleted_at":null},
{"id":35,"email":"Derek.Knittel@gmail.com","password":"ce3ce950891124de7f449c84a33ff71","details":{"sex":"F","created_at":"2010-08-16T21:09:00.000Z","deleted_at":null},
{"id":36,"email":"Eleanor.Patnode@yahoo.com","password":"c20912ab068921f869ee26724bdfc081","details":{"sex":"F","state":"Florida","created_at":"2010-06-06T01:27:00.000Z","deleted_at":null},
{"id":37,"email":"Carmel.Bulfer@aol.com","password":"15167ae65da06c6fcd0e1c080f8a744d3","details":{"sex":"F","state":"Florida","created_at":"2009-06-06T30:12:00.000Z","deleted_at":null},
{"id":38,"email":"Masuo.Pung@yahoo.com","password":"4a625168e5e9b8d49c303d20ecc95b","details":{"sex":"F","state":"Tillinois","created_at":"2009-08-20T02:34:00.000Z","deleted_at":null},
{"id":39,"email":"Sherilyn.Hemill@gmail.com","password":"2f313c4060182796f717d83e7f3312b","details":{"sex":"M","created_at":"2010-04-01T23:39:00.000Z","deleted_at":null},
{"id":40,"email":"Elen.Lanphear@yahoo.com","password":"66565168a637a3c5f43bdf5f2e9313a","details":null,"created_at":"2010-08-06T15:14:00.000Z","deleted_at":null},
{"id":41,"email":"Stacia.Schreck@aol.com","password":"8a91813f99c9d9eefbbd5de4fbc2be07","details":{"sex":"M","created_at":"2010-06-14T19:28:00.000Z","deleted_at":null},
{"id":42,"email":"Tonette.Albagg@aol.com","password":"9e742176f0d41b884c7734267a8ac0","details":null,"created_at":"2009-12-28T10:21:00.000Z","deleted_at":null},
{"id":43,"email":"Eve.Kung@yahoo.com","password":"3008c5ebf6fd45417961ef09f28498a","details":{"sex":"M","created_at":"2009-08-20T09:45:00.000Z","deleted_at":null},
{"id":44,"email":"Shanell.Haxson@gmail.com","password":"e47a8b0e59427f189f146889d457f5c2","details":{"sex":"M","created_at":"2009-11-21T06:28:00.000Z","deleted_at":null},
{"id":45,"email":"Gudrun.Arends@gmail.com","password":"7335db8760999eaf1d080443c6f449","details":null,"created_at":"2010-06-30T12:30:00.000Z","deleted_at":null},
{"id":46,"email":"Angel.Lessley@yahoo.com","password":"070efafe901ffff211538e536ad797443","details":{"sex":"F","created_at":"2009-08-21T17:06:00.000Z","deleted_at":null},
{"id":47,"email":"Harrison.Puett@yahoo.com","password":"ff9e460eaca39e2c3bbd68042047826a","details":{"sex":"M","created_at":"2009-07-21T15:20:00.000Z","deleted_at":null},
{"id":48,"email":"Granville.Hedgpath@gmail.com","password":"87f0bf0d8e2a8b8d30bc1309936744cb","details":null,"created_at":"2009-08-03T14:54:00.000Z","deleted_at":null},
{"id":49,"email":"Santia.Pellegrino@yahoo.com","password":"4e2a5f4b462636db7f19b0c49f841822","details":null,"created_at":"2009-03-25T20:17:00.000Z","deleted_at":null},
{"id":50,"email":"Wen.Dilks@gmail.com","password":"0609f5923e2b0ce4711d3d9eb37cc54","details":{"sex":"M","created_at":"2009-10-06T12:43:00.000Z","deleted_at":null}]
```

GET /users/:id (of ID 25)

```
localhost:3000/pgguide/users/25

[{"id":25,"email":"Ivana.Sosnowski@aol.com","password":"f12980358430ee7ae192b641aa6ac85d","details":{"sex":"M","created_at":"2009-01-16T11:55:00.000Z","deleted_at":null}]
```

GET /products

```
localhost:3000/pgguide/products

[{"id":1,"title":"Dictionary","price":"9.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Book"]}, {"id":2,"title":"Python Book","price":"29.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Book","Programming","Python"]}, {"id":3,"title":"Ruby Book","price":"27.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Book","Programming","Ruby"]}, {"id":4,"title":"Baby Book","price":"7.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Book","Children","Baby"]}, {"id":5,"title":"Coloring Book","price":"5.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Book","Children"]}, {"id":6,"title":"Desktop Computer","price":"499.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Technology"]}, {"id":7,"title":"Laptop Computer","price":"899.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Technology"]}, {"id":8,"title":"MP3 Player","price":"109.00","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Technology","Music"]}, {"id":9,"title":"42\" LCD TV","price":"499.00","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Technology","TV"]}, {"id":10,"title":"42\" Plasma TV","price":"629.00","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Technology","TV"]}, {"id":11,"title":"Classical CD","price":"9.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Music"]}, {"id":12,"title":"Holiday CD","price":"9.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Music"]}, {"id":13,"title":"Country CD","price":"9.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Music"]}, {"id":14,"title":"Pop CD","price":"9.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Music"]}, {"id":15,"title":"Electronic CD","price":"9.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Music"]}, {"id":16,"title":"Comedy Movie","price":"14.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Movie","Comedy"]}, {"id":17,"title":"Documentary","price":"14.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Movie"]}, {"id":18,"title":"Romantic","price":"14.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Movie"]}, {"id":19,"title":"Drama","price":"14.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Movie"]}, {"id":20,"title":"Action","price":"14.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Movie"]}]
```

GET /products/:id (of ID 7)

```
localhost:3000/pgguide/products/7

[{"id":7,"title":"Laptop Computer","price":"899.99","created_at":"2011-01-01T20:00:00.000Z","deleted_at":null,"tags":["Technology"]}]
```


GET /purchases

```
localhost:3000/pgguide/purchases

[{"id":1,"created_at":"2011-03-16T15:03:00.000Z","name":"Harrison Jonson","address":"6425 43rd St.", "state":"FL","zipcode":50382,"user_id":7}, {"id":2,"created_at":"2011-09-14T05:00:00.000Z","name":"Cortney Fontanilla","address":"321 MLK Ave.", "state":"WA","zipcode":43895,"user_id":30}, {"id":3,"created_at":"2011-09-11T05:54:00.000Z","name":"Ruthie Veshon","address":"2307 45th St.", "state":"GA","zipcode":98937,"user_id":18}, {"id":4,"created_at":"2011-02-27T20:53:00.000Z","name":"Isabel Lynn","address":"7046 10th Ave.", "state":"NM","zipcode":52545,"user_id":11}, {"id":5,"created_at":"2011-12-20T12:45:00.000Z","name":"Shari Durio","address":"4046 8th Ave.", "state":"FL","zipcode":65539,"user_id":34}, {"id":6,"created_at":"2011-12-10T15:20:00.000Z","name":"Kristofer Galvez","address":"2545 8th Ave.", "state":"WA","zipcode":83868,"user_id":39}, {"id":7,"created_at":"2011-06-19T03:42:00.000Z","name":"Maude Hedlen","address":"2849 44th Ave.", "state":"FL","zipcode":52107,"user_id":8}, {"id":8,"created_at":"2011-05-28T01:19:00.000Z","name":"Isabel Crissman","address":"1992 50th Ave.", "state":"WA","zipcode":91062,"user_id":50}, {"id":9,"created_at":"2011-03-31T10:33:00.000Z","name":"Nydia Moe","address":"5847 50th Ave.", "state":"NM","zipcode":86738,"user_id":32}, {"id":10,"created_at":"2011-01-27T04:58:00.000Z","name":"Dee Heavner","address":"8021 8th Ave.", "state":"TX","zipcode":411065,"user_id":23}, {"id":11,"created_at":"2011-12-15T01:12:00.000Z","name":"Kristofer Larimer","address":"55574 43rd St.", "state":"NM","zipcode":78804,"user_id":45}, {"id":12,"created_at":"2011-01-22T02:06:00.000Z","name":"Rosemary Letellier","address":"9088 California St.", "state":"CO","zipcode":59199,"user_id":25}, {"id":13,"created_at":"2011-08-14T19:27:00.000Z","name":"Becky Stokes","address":"1470 Washington Ave.", "state":"CO","zipcode":49527,"user_id":33}, {"id":14,"created_at":"2011-07-12T19:20:00.000Z","name":"Ferta Fruchter","address":"3528 31st St.", "state":"GA","zipcode":64386,"user_id":5}, {"id":15,"created_at":"2011-08-02T14:37:00.000Z","name":"Adell Doyel","address":"1549 50th Ave.", "state":"TX","zipcode":72775,"user_id":28}, {"id":16,"created_at":"2011-03-24T18:04:00.000Z","name":"Bradly Vasko","address":"14388 45th St.", "state":"NM","zipcode":84583,"user_id":22}, {"id":17,"created_at":"2011-09-10T08:55:00.000Z","name":"Clemencia Durio","address":"478 44th Ave.", "state":"TX","zipcode":527038,"user_id":27}, {"id":18,"created_at":"2011-02-24T19:42:00.000Z","name":"Kristle Pung","address":"8394 8th Ave.", "state":"IL","zipcode":87659,"user_id":58}, {"id":19,"created_at":"2011-04-19T17:51:00.000Z","name":"Adell Hayon","address":"1482 31st St.", "state":"TX","zipcode":72775,"user_id":28}, {"id":20,"created_at":"2011-01-20T17:52:00.000Z","name":"Carolann Yoshimura","address":"19530 Washington St.", "state":"TX","zipcode":50503,"user_id":19}, {"id":21,"created_at":"2011-07-07T14:41:00.000Z","name":"Andres Schippers","address":"9600 44th Ave.", "state":"CO","zipcode":62899,"user_id":18}, {"id":22,"created_at":"2011-03-05T22:53:00.000Z","name":"Divina Hamill","address":"2183 50th Ave.", "state":"TX","zipcode":73210,"user_id":45}, {"id":23,"created_at":"2011-12-22T13:39:00.000Z","name":"Romane Coderre","address":"6990 Washington Ave.", "state":"WA","zipcode":81853,"user_id":39}, {"id":24,"created_at":"2011-12-20T23:44:00.000Z","name":"Kourtney Julian","address":"8277 44th Ave.", "state":"TX","zipcode":67133,"user_id":37}, {"id":25,"created_at":"2011-05-30T17:49:00.000Z","name":"Danyel Steyers","address":"8064 8th Ave.", "state":"WA","zipcode":56917,"user_id":19}, {"id":26,"created_at":"2011-12-24T02:29:00.000Z","name":"Jane Petrin","address":"410 44th Ave.", "state":"TX","zipcode":73210,"user_id":45}, {"id":27,"created_at":"2011-02-28T15:00:00.000Z","name":"Kim Binksel","address":"1238 50th Ave.", "state":"CO","zipcode":58337,"user_id":15}, {"id":28,"created_at":"2011-10-14T16:27:00.000Z","name":"Kwon Gaspen","address":"5307 43rd St.", "state":"TX","zipcode":81439,"user_id":34}, {"id":29,"created_at":"2011-07-08T22:20:00.000Z","name":"Carmy Hayon","address":"8612 Washington Ave.", "state":"TX","zipcode":590519,"user_id":27}, {"id":30,"created_at":"2011-05-24T08:03:00.000Z","name":"Tommie Lanier","address":"3673 10th Ave.", "state":"NM","zipcode":590519,"user_id":27}, {"id":31,"created_at":"2011-03-30T21:44:00.000Z","name":"Brandon Fruchter","address":"8354 Washington Ave.", "state":"NM","zipcode":59074,"user_id":43}, {"id":32,"created_at":"2011-01-12T16:26:00.000Z","name":"Ricarda Pressey","address":"6479 31st St.", "state":"TX","zipcode":95407,"user_id":48}, {"id":33,"created_at":"2011-11-01T21:34:00.000Z","name":"Shelon Fontanilla","address":"7274 50th Ave.", "state":"TX","zipcode":77654,"user_id":25}, {"id":34,"created_at":"2011-09-11T02:23:00.000Z","name":"Edmund Pressnell","address":"1644 31st St.", 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And so on

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