

Assignment 1

Example Test Cases

Last updated: **Sunday 24th September 3:46pm**

Most recent changes are shown in **red** ... older changes are shown in **brown**.

[\[Assignment Spec\]](#) [\[Database Design\]](#) [\[Examples\]](#)

The following will give some sample inputs and outputs that you can use to estimate the correctness of your views and functions. At present it just shows output from a few simple queries.

These examples are by no means exhaustive, and more cases will be used in the auto-marking; it is up to you to perform comprehensive checking of your solution.

Note that the default behaviour when you raise an error is to print a line giving you the **CONTEXT** in the PLpgSQL code where the error was raised. We did not show the **CONTEXT** message in the examples below. For you to prevent the message, use the `psql` command:

```
\set verbosity terse
```

Of course, this will probably prevent the **CONTEXT** message appearing if your code has a genuine error, so rather than turning the message off, you could always just ignore it. Whether it's on or off does not affect the auto-marking.

Examples for BeerDB

```
-- How many breweries are there?

ass1=# select count(*) from Breweries;
count
-----
    297
(1 row)

-- How many different beers are there?

ass1=# select count(*) from Beers;
count
-----
    985
(1 row)

-- Expected output for assignment views

ass1=# select * from q1 order by state;
state      | nbreweries
```

```

-----+-----
ACT | 2
New South Wales | 55
Queensland | 14
South Australia | 10
Tasmania | 5
Victoria | 43
Western Australia | 9
(7 rows)

```

```

ass1=# select * from q2 order by style;

```

```

      style      | min_abv | max_abv
-----+-----
Imperial IPA    | 9      | 20
Imperial Stout  | 8      | 19
(2 rows)

```

```

ass1=# select * from q3 order by style;

```

```

      style      | lo_abv | hi_abv | min_abv | max_abv
-----+-----+-----+-----+-----
Alcohol-free Lager | 0      | 0      | 0.1     | 6
Alcohol-free Pale Ale | 0      | 0      | 0.1     | 6
Black IPA          | 6.1    | 13.2   | 5        | 6
Dark Ale           | 5.2    | 9.4    | 4        | 6
Dark Lager         | 4.7    | 5.4    | 4        | 6
Double IPA         | 7.7    | 11.1   | 7        | 6
Hazy Triple IPA    | 10     | 11.3   | 9        | 6
Imperial IPA       | 8      | 41     | 9        | 6
Imperial Pastry Stout | 10     | 13.2   | 9        | 6
Imperial Red IPA   | 6.9    | 12.3   | 6        | 6
Imperial Stout     | 7.7    | 18     | 8        | 6
Lager              | 4.2    | 5.5    | 4.5     | 5
Marzen             | 5.3    | 6.3    | 4        | 6
Milk Stout         | 5.1    | 7.3    | 4        | 6
Milkshake IPA      | 6.4    | 10.1   | 5        | 6
Non-Alcoholic IPA  | 0      | 0      | 0.1     | 6
Non-Alcoholic Lager | 0      | 0.5    | 0.1     | 6
Non-alcoholic Hefeweizen | 0      | 0      | 0.1     | 6
Oatmeal Stout      | 6      | 8.3    | 5        | 6
Pale Lager         | 4.4    | 5.1    | 3        | 6
Pastry Stout       | 6      | 13.4   | 5        | 6
Porter             | 5      | 8.2    | 4        | 6
Quadrupel          | 9.7    | 11.3   | 9        | 6
Saison             | 3.5    | 7.2    | 3        | 6
Strong Dark Ale    | 8.5    | 9.2    | 8        | 6
Vanilla Ice Cream Ale | 7      | 7.3    | 6        | 6
West Coast IPA     | 6      | 8.2    | 5        | 6
(27 rows)

```

```
ass1=# select * from q4 order by brewery
        brewery      | rating
-----+-----
```

```
  Trillium Brewing Company |    9.2
(1 row)
```

```
ass1=# select * from q5('extra') order by beer;
        beer      | container | std_drinks
-----+-----+-----
```

```
  Corona Extra      | 355ml bottle |    1.3
  Extra Special Bitter | 375ml can    |    2.6
(2 rows)
```

```
ass1=# select * from q5('fairy floss') order by beer;
        beer      | container | std_drinks
-----+-----+-----
```

```
  Fairy Floss Sour | 440ml can |    3.0
(1 row)
```

```
ass1=# select * from q5('oop') order by beer;
        beer      | container | std_drinks
-----+-----+-----
```

```
  Fly the Coop | 440ml can |    2.9
  Hoopy Aid    | 500ml can |    2.6
  Supertrooper | 440ml can |    3.5
(3 rows)
```

```
ass1=# select * from q5('Four') order by beer;
        name      | container | std_drinks
-----+-----+-----
```

```
  Four Seasons - Autumn | 440ml can |    2.1
  Four Seasons - Winter | 440ml can |    3.5
  Six Four Four         | 440ml can |    2.9
(3 rows)
```

```
ass1=# select * from q5('zz') order by beer;
        beer      | container | std_drinks
-----+-----+-----
```

```
  Mind Fuzz      | 473ml can |    2.3
  Peroni Nastro Azzurro | 330ml bottle |    1.3
  The Toques of Hazzard | 473ml can |    3.5
  Turbo Fuzz     | 440ml can |    3.5
(4 rows)
```

```
ass1=# select * from q6('australia') order by country;
        country | first | nbeers | rating
-----+-----+-----+-----
```

```
Australia | 2000 | 652 | 7.4
(1 row)
```

```
ass1=# select * from q6('aust') order by country;
   country | first | nbeers | rating
-----+-----+-----+-----
Australia | 2000 | 652 | 7.4
Austria  | 1994 | 1 | 7.0
(2 rows)
```

```
ass1=# select * from q6('land') order by country;
   country | first | nbeers | rating
-----+-----+-----+-----
England   | 2016 | 8 | 6.4
Netherlands | 2018 | 9 | 6.7
New Zealand | 2018 | 84 | 7.4
Poland    | 2016 | 4 | 6.5
Scotland  | 2010 | 13 | 8.2
(5 rows)
```

```
ass1=# select * from q6('oo') order by country;
   country | first | nbeers | rating
-----+-----+-----+-----
(0 rows)
```

```
-- Notice that the final row does not have a trailing '+'
-- This is because the return string is not '\n'-terminated
-- Note also that since q7() returns a single value, we don't need
```

```
ass1=# select q7(123);
      q7
-----
No such beer (123)
(1 row)
```

```
ass1=# select q7(366);
      q7
-----
"Acronym Abuse" +
no ingredients recorded
(1 row)
```

```
ass1=# select q7(891);
      q7
-----
"Mellow Mood" +
contains: +
  Bananas (adjunct) +
  Coconut (adjunct) +
  Lactose (adjunct) +
  Maple syrup (adjunct) +
```

```

      Oats (grain)          +
      Peaches (adjunct)    +
      Strawberries (adjunct)+
      Vanilla (adjunct)
(1 row)

```

```

ass1=# select q7(893);
      q7

```

```

-----
"Metaverse"          +
contains:            +
  Amarillo (hop)     +
  Bru-1 (hop)        +
  Cascade (hop)      +
  Cashmere (hop)     +
  Centennial (hop)+
  Citra (hop)        +
  Columbus (hop)     +
  El dorado (hop)    +
  Galaxy (hop)       +
  Idaho7 (hop)       +
  Mosaic (hop)       +
  Simcoe (hop)
(1 row)

```

```

ass1=# select q7(1202);
      q7

```

```

-----
"The Future is Bright" +
contains:              +
  Azacca (hop)         +
  Cashmere (hop)       +
  Idaho7 (hop)         +
  Mosaic (hop)         +
  Pale malt (grain)    +
  Torrifified wheat (grain)+
  Vienna malt (grain)  +
  Warrior (hop)
(1 row)

```

```

ass1=# select q7(1226);
      q7

```

```

-----
"Timothy Tamothy Slamothy"+
contains:                  +
  Amber malt (grain)      +
  Cacao (adjunct)         +
  Carafa (grain)          +
  Caramel malt (grain)    +
  Chocolate malt (grain)+
  Lactose (adjunct)       +
  Magnum (hop)            +
  Oats (grain)

```

(1 row)

```
ass1=# select * from q8('korb') order by beer;
```

beer	brewery	hops
Korben D	Akasha Brewing Company	Centennial,Mosaic,Simcoe

(1 row)

```
ass1=# select * from q8('hoppiness') order by beer;
```

beer	brewery	hops
Liquid Hoppiness	Sierra Nevada Brewing Company	Cascade
Pursuit of Hoppiness	Hargreaves Hill Brewing Co	Galaxy

(2 rows)

```
ass1=# select * from q8('yakima') order by beer;
```

beer	brewery	hops
Yakima Valley	Garage Project+Trillium Brewing Company	no hops
Yakimanian	One Drop Brewing Co.	no hops

(2 rows)

```
ass1=# select * from q8('dank') order by beer;
```

beer	brewery	hops
Dank you for Hopping	Chur (Behemoth) Brewing	no hops
Dankful	Sierra Nevada Brewing Company	Chinook
The Dank	Batch Brewing Co	no hops
The Dank	Kaiju! Beer	no hops

ps

(4 rows)

```
ass1=# select * from q8('zzz') order by beer;
```

beer	brewery	hops
------	---------	------

(0 rows)

```
ass1=# select * from q8('zz') order by beer;
```

beer	brewery	hops
Mind Fuzz	Phantom Beer	no hops
Peroni Nastro Azzurro	Birra Peroni Industriale	no hops
The Toques of Hazzard	Parallel49 Brewing Company	no hops
Turbo Fuzz	Garage Project	Galaxy,

(4 rows)

-- A very long tuple displays best in "extended" mode

-- In "extended" mode, each field is displayed on a separate line

-- This particular beer has a large number of collaborating breweries

```
ass1=# \x
```

```
Expanded display is on.
```

```
ass1=# select * from q8('show') order by beer;
```

```
-[ RECORD 1 ]-----
beer      | Best in Show
brewery    | Barossa Valley Brewing+Bentspoke Brewing Co+Grifter
hops       | Citra,Eclipse,Idaho7,Salvo,Trident
```

```
ass1=# select * from q9(0);
```

```
      brewery      | collaborator
-----+-----
No such brewery (0) | none
(1 row)
```

```
ass1=# select * from q9(49);
```

```
      brewery      | collaborator
-----+-----
Brewdog | none
(1 row)
```

```
ass1=# select * from q9(149);
```

```
      brewery      | collaborator
-----+-----
Humble Sea Brewing | Garage Project
(1 row)
```

```
ass1=# select * from q9(267);
```

```
      brewery      | collaborator
-----+-----
To Ol      | Moon Dog Craft Brewery
(1 row)
```

```
ass1=# select * from q9(118);
```

```
      brewery      | collaborator
-----+-----
Garage Project | Balter Brewing Co
                | Cloudburst Brewing
                | Highland Park Brewery
                | Humble Sea Brewing
                | Modern Times Beer
                | Monkish Brewing Company
                | Other Half Brewing
                | Trillium Brewing Company
(8 rows)
```

```
ass1=# select * from q9(183);
```

```
      brewery      | collaborator
-----+-----
Moo Brew | Barossa Valley Brewing
          | Bentspoke Brewing Co
```

```
| Grifter Brewing Co
| Moffat Beach Brewing Company
| Moon Dog Craft Brewery
| Otherside Brewing Co
```

(6 rows)

```
ass1=# select * from q9(184);
```

brewery	collaborator
Moon Dog Craft Brewery	Barossa Valley Brewing
	Bentspoke Brewing Co
	Grifter Brewing Co
	Moffat Beach Brewing Company
	Moo Brew
	Otherside Brewing Co
	To Ol
	Yulli's Brews

(8 rows)