

Answers for Week 1 practice questions.

The answers to this week's questions are also available in a .sql file, which can be opened in a text editor like Notepad++ (Windows), gedit (Linux) or similar.

-- Part 1 - Basic SQL Queries - Invoices tables

-- Q1

```
SELECT * FROM CUSTOMER;
```

```
SELECT * FROM CUSTOMER WHERE CUSTSTATE = 'NSW';
```

```
SELECT * FROM CUSTOMER WHERE CUSTSTATE = 'NT';
```

```
SELECT * FROM CUSTOMER WHERE CUSTSTATE = 'QLD'; -- Note that this doesn't work.  
Why? Because the rows in the database are Qld, not QLD.
```

```
SELECT * FROM CUSTOMER WHERE UPPER(CUSTSTATE) = 'QLD'; -- This works because it  
first converts the CUSTSTATE column to UPPER case, before checking if it matches 'QLD'
```

-- Q2

```
SELECT * FROM ITEM;
```

```
SELECT * FROM ITEM WHERE ITEMPRICE > 600;
```

```
SELECT * FROM ITEM WHERE ITEMPRICE > 800;
```

-- Q3

```
SELECT * FROM ITEM WHERE ITEMPRICE > 600 ORDER BY ITEMDESC;
```

```
SELECT * FROM ITEM WHERE ITEMPRICE > 600 ORDER BY ITEMPRICE ASC; -- ASC will  
make the sort go from small -> large, which is the default
```

```
SELECT * FROM ITEM WHERE ITEMPRICE > 600 ORDER BY ITEMPRICE DESC; -- DESC  
will make the sort reverse, from large -> small
```

-- Q4

```
SELECT * FROM ITEM WHERE UPPER(ITEMDESC) LIKE '%SCREEN%';
```

```
SELECT * FROM ITEM WHERE UPPER(ITEMDESC) LIKE '%TUBE%';
```

```
SELECT * FROM ITEM WHERE UPPER(ITEMDESC) LIKE '%SCREEN%' OR  
UPPER(ITEMDESC) LIKE '%TUBE%';
```

-- Q5

```
SELECT * FROM ITEM WHERE (UPPER(ITEMDESC) LIKE '%SCREEN%' OR  
UPPER(ITEMDESC) LIKE '%TUBE%') AND ITEMPRICE > 400; -- Note the use of parentheses  
'(' to group the queries
```

```
SELECT * FROM ITEM WHERE (UPPER(ITEMDESC) LIKE '%SCREEN%' OR  
UPPER(ITEMDESC) LIKE '%TUBE%') AND ITEMPRICE < 500; -- Note the use of parentheses  
'(' to group the queries
```

```
-----  
-- Q *
```

```
SELECT * FROM STUDENT;
```

```
-- Q6
```

```
SELECT STUDENT_NO, NAME FROM STUDENT;
```

```
SELECT NAME, TOTAL_UNITS FROM STUDENT;
```

```
-- Note how you can re-order the columns in your select statement
```

```
SELECT TOTAL_UNITS, STUDENT_NO, NAME FROM STUDENT;
```

```
-- Q7
```

```
-- Note that you can use where to filter on a column that isn't one you are selecting
```

```
SELECT NAME, TOTAL_UNITS, COORD_NO FROM STUDENT WHERE STUDENT_NO =  
12345678;
```

```
SELECT NAME, TOTAL_UNITS AS COMPLETED, COORD_NO FROM STUDENT WHERE  
STUDENT_NO = 12345678;
```