Week 9 Exercises

Each question comes with the results of the correct query. Use those results to see whether your query is correct. Table headings are not shown.

Part 1. Child Care.

Answer the following questions using the "child_care" database on the database server for exercises 1-6. This database lists 929 child-care centres in Toronto as of September 2010. (This is real data from Toronto's Open Data project.)

What are the top ten wards by the total number of toddler spaces? (List the ward numbers together with the total number of toddler spaces in each of them.)

```
+------+--------------------+
|  20  |                402 |
|  28  |                290 |
|  13  |                269 |
|  16  |                205 |
|  27  |                203 |
|   5  |                200 |
|  38  |                200 |
|   8  |                200 |
|  10  |                199 |
|  22  |                197 |
+------+--------------------+
```

In which wards do toddler spaces available in centres run by commercial agencies account for more than a quarter of all spaces in such centres? List the ward numbers sorted by the ratio of toddler spaces to all spaces in commercial centers, in descending order.

```
+------+
|  28  |
|  13  |
|  20  |
|  27  |
+------+
```

Part 2. Diveshop.

Answer the following questions using the "diveshop" database.

What is the most visited destination? (If a customer booked multiple trips to the same destination, count all of them separately.)

```
+------------------+
| Santa Barbara    |
+------------------+
```

What cities have more than one customer living in them?

```
+---------------+------------+---------+
| San Francisco | CA         | U.S.A.  |
+---------------+------------+---------+
```

*What is the most popular payment method for customers living **outside** California ("CA")?*

```
+---------------+
| Cash          |
+---------------+
```

What is the average depth for sites at each skill level?

```
+--------------+--------------------+
| Advanced     | 31.813499999999994 |
| Beginning    | 14.919157894736841 |
| Intermediate | 26.416000000000007 |
+--------------+--------------------+
```

Which sites are more than 50% deeper than the average for their skill level? (E.g., if "Beginning" sites are 20 m deep on average, then we are only interested in those "Beginning" sites that are deeper than 30 m. Same for all the other skill levels.)

```
+--------------+---------+
| Watanabe     |   45.72 |
| Descanso Bay |  27.432 |
| Mohawk       |  24.384 |
+--------------+---------+
```