Modifying Data with SQL Part 1 Notes

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1 Introduction to CRUD

2 Adding a Row to a Table

- Adding rows of information into a table (in the order of columns)
  - **Syntax:** INSERT INTO *table name* VALUES (*value 1, value 2, ...*);

```
1    INSERT INTO users VALUES  (1, "chalkers", "Andrew", "Chalkley"
     );
2
3
4    INSERT INTO users VALUES  (2, "ScRiPtKiDdIe", "Kenneth", "Love
     ");
5
6
7    INSERT INTO movies VALUES (3, "Starman", "Science Fiction",
     1984);
8
9
10   INSERT INTO movies VALUES (4, "Moulin Rouge!", "Musical",
     2001);
11
```

- Adding rows of information into a table (independent of the order of columns)
  - **Syntax:** INSERT INTO *table name* (*column name 1, column name 2*) VALUES (*value 1, value 2*);
  - **Syntax # 2:** INSERT INTO *table name* (*column name 2, column name 1*) VALUES (*value 2, value 1*);

```
1    INSERT INTO users (username, first_name, last_name) VALUES ("
     chalkers", "Andrew", "Chalkley");
2
```

```
3
4      INSERT INTO users (first_name, last_name, username) VALUES  ("
       Kenneth", "Love", "ScRiPtKiDdIe");
5
6
7      INSERT INTO movies (title, genre, year_released) VALUES ("
       Starman", "Science Fiction", 1984);
8
9
10     INSERT INTO movies (title, year_released, genre) VALUES ("
       Moulin Rouge!", 2001,  "Musical");
11
```

3   Adding Multiple Rows to a Table

- Adding multiple rows rows of information into a table (in the order of columns)

  – **Syntax:**

```
1
2      \textit{INSERT INTO <table name> (<column name 1>, <column
       name 2>, ...)}
3      VALUES
4              (<value name 1>, <value name 2>, ...),
5              (<value name 1>, <value name 2>, ...),
6              (<value name 1>, <value name 2>, ...);
7
```

```
1     INSERT INTO users (username, first_name, last_name)
2         VALUES
3                     ("chalkers", "Andrew", "Chalkley"),
4                     ("ScRiPtKiDdIe", "Kenneth", "Love");
5
6
7     INSERT INTO movies (title, genre, year_released)
8         VALUES
9                     ("Starman", "Science Fiction", 1984),
10                    ("Moulin Rouge!", "Musical", 2001);
11
```

4   Exercise 1

- Solution included in *exercise_1.sql*

5   Review and Practice

6   Quiz 1

1. What character should you replace the ? with to create a valid INSERT statement?

```
1      INSERT INTO awesome_people (first_name, last_name) VALUES ("Grace",
       "Hopper")? ("Ada", "Lovelace");
2
```

A. ,

B. "

C. ;

Answer: A

<div align="center">countries</div>

id	name	population
1	United Kingdom	64511000
2	United States	322014853
3	Australia	23985800

2.

Please fill in the correct answer in each blank provided below.

Given the database table imaged above, how would you complete this INSERT statement.

```
1      INSERT INTO countries (population, ____) VALUES (4596700, "New
       Zealand");
2
```

Answer: name

3. What does the acronym CRUD stand for?

    A. Create, Read, Update and Delete

    B. Curate, Retrieve, Update and Delete

    C. Create, Render, Update and Duplicate

Answer: A

4. Please fill in the correct answer in each blank provided below.

```
1     INSERT \_\_\_\_\_  tv_shows (show, network) \_\_\_\_\_  ("Super Girl
      ", "CBS");
2
```

Answer: INTO, VALUES

5. How many rows will this statement insert in to the cars table?

```
1     INSERT INTO cars (make, model) VALUES ("Fiat", "Fiat 500"),
2         ("Fiat", "Fiat Multipla"),
3         ("Cadillac", "Cadillac Fleetwood"),
4         ("Cadillac", "Cadillac Eldorado");
5
```

    A. 5

    B. 4

    C. 3

Answer: B