



Exercise

- 1 Write a CREATE TABLE statement below to store first and last names of people. Your table should have a primary key column with AUTO_INCREMENT and two other atomic columns.

CREATE TABLE your_table

```
(  
  id INT NOT NULL AUTO INCREMENT,  
  first_name VARCHAR(20),  
  last_name VARCHAR(30),  
  PRIMARY KEY (id)  
);
```

- 2 Open your SQL terminal or GUI interface and run your CREATE TABLE statement.
- 3 Try out each of the INSERT statements below. Circle the ones that work.

```
INSERT INTO your_table (id, first_name, last_name)  
VALUES (NULL, 'Marcia', 'Brady');
```

```
INSERT INTO your_table (id, first_name, last_name)  
VALUES (1, 'Jan', 'Brady');
```

```
INSERT INTO your_table  
VALUES (2, 'Bobby', 'Brady');
```

```
INSERT INTO your_table (first_name, last_name)  
VALUES ('Cindy', 'Brady');
```

```
INSERT INTO your_table (id, first_name, last_name)  
VALUES (99, 'Peter', 'Brady');
```

- 4 Did all the Bradys make it? Sketch your table and its contents after trying the INSERT statements

your_table

id	first_name	last_name
1	Marcia	Brady
2	Bobby	Brady
3	Cindy	Brady
99	Peter	Brady

Sharpen your pencil

Write a query for **each table** to find all records from New Jersey.

This query can focus purely on the state column

```
SELECT * FROM fish_records  
WHERE state = 'NJ';
```

I'm a writer for *Reel and Creel* magazine. I need to know the names of the fishermen, dates, and locations of the big catches.

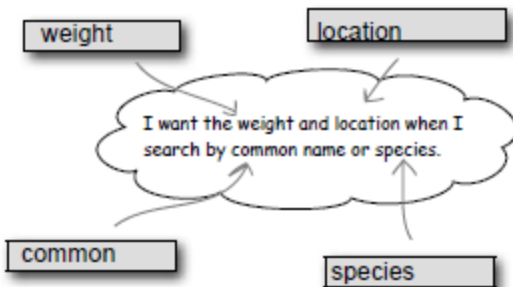
Jack



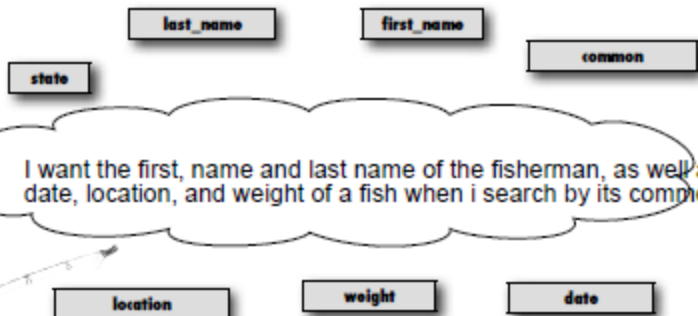


Exercise

Can you spot the columns in this sentence Mark the ichthyologist used to describe how he wants to select from his table? Fill in the column names.



Your turn. Write a sentence for Jack, the writer for *Reel and Creel* magazine, who uses his table to select details for his articles. Then draw arrows from each column to where it's mentioned in the sentence.



Type text here



Exercise

Now that you know the official rules and the three steps to making data atomic, take a look at each table from earlier in this book and explain why it is or isn't atomic.

Greg's table, page 47 Not atomic

Donut rating table, page 78 Atomic

Clown table, page 121 Not Atomic

Drink table, page 59 Not Atomic

Fish info, page 160 Atomic