```
SELECT drink name FROM easy drinks
WHERE main IN ('peach nectar', 'soda');
  SELECT drink_name FROM easy_drinks
  WHERE main BETWEEN 'P' AND 'T':
SELECT drink name FROM drink info
WHERE NOT calories = 0:
   SELECT drink name FROM drink info
  WHERE calories > 0;
SELECT drink name FROM drink info
WHERE NOT carbs BETWEEN 3 AND 5;
 SELECT drink_name FROM drink_info
WHERE carbs < 3
 OR
carbs > 5;
SELECT date name from black book
WHERE NOT date name LIKE 'A%'
AND NOT date name LIKE 'B%';
  SELECT date_name FROM black_book
  WHERE date_name NOT BETWEEN 'A' AND 'C':
```

Column Name	Description	Example	Best Cheice of Data Type
price	The cost of an item for sale	5678.39	DEC(6,2)
zip_code	4 number zip code	2919	CHAR(4)
atomic_weight	Atomic weight of an element with up to 6 decimal places	1.052965	DEC(10,6)
comments	Large block of text, more than 255 characters	Joe, I'm at the shareholder's meeting. They just gase a demo and there were rubber duckies flying around the screen. Was this year idea of a joke? You might want to spend some time on Monster corn.	BLOB
quantity	How many of this item in stock	255	INT
tax_rate	up to 3 dec	3.755	DEC(6,3)
book_title	text string	Head First SQL	VARCHAR(50)
gender	One character, either M or F	М	CHAR(1)
phone_number	Ten digits, no punctuation	2105552367	CHAR(10)
state	Two-character abbreviation for a state	TX, CA	CHAR(2)
anniversary	DAY, MONTH, YEAR	11/22/2006	DATE
games_won	INT representing # won	15	INT
meeting_time	A TIME	10:30 a.m. 4/12/2020	DATETIME

pharpan your paron Your SQL RDBMS will tell you when something is wrong with your statement,

but will sometimes be a bit vague. Take a look at each INSERT statement below. First try to guess what's wrong with the statement, and then try typing it in to see what your RDBMS reports.

INSERT INTO my contacts

(last name, first name, email, gender, birthday, profession, location, status, interests, seeking) VALUBS ('Anderson', 'Jillian', 'jill_anderson@breakneckpizza.net', 'F', '1980-09-05', 'Technical Writer', 'Single', 'Kayaking, Reptiles', 'Relationship, Friends'):

No location value What's wrong?

Your RDBMS says: ERROR 1136 (21S01): Column count doesn't match value count at row 1

INSERT INTO my contacts

(last name, first name, gender, birthday, profession, location, status, interests, seeking) VALUES ('Anderson', 'Jillian', 'jill_anderson@breakneckpissa.net', 'F', '1980-09-05', 'Technical Writer', 'Palo Alto, CA', 'Single', 'Kayaking, Reptiles', 'Relationship, Friends');

What's wrong? missing email column

Your RDBMS says: a ERROR 1136 (21S01): Column count doesn't match value count at row 1

INSERT INTO my contacts

(last name, first name, email, gender, birthday, profession, location, status, interests, seeking) VALUES ('Anderson', 'Jillian', 'jill anderson@breakneckpissa.net', 'F', '1980-09-05', 'Technical Writer' 'Palo Alto, CA', 'Single', 'Kayaking, Reptiles', 'Relationship, Friends');

What's wrong? missing comma between 'technical writer' and 'palo atto'

Your RDBMS says: ERROR 1136 (21S01): Column count doesn't match value count at row 1

INSERT INTO my contacts

(last name, first name, email, gender, birthday, profession, location, status, interests, seeking) VALUBS ('Anderson', 'Jillian', 'jill_anderson@breakneckpissa.net', 'F', '1980-09-05', 'Technical Writer', 'Palo Alto, CA', 'Single', 'Kayaking, Reptiles', 'Relationship, Friends);

What's wrong? missing single quote at end

If this one causes your RDBMS to "hang," try typing a single quote followed by a Your RDBMS says: Error Code: 1064. You have an error in your SQL syntax; Samidelon after you've entered the rest check the manual that corresponds to your MySQLof the statement. server version for the right syntax to use near "Relationship, Friends)' at line 5



If you have data in your table with quotes, you might actually have to search for it with a WHERE clause at some point. To SELECT data containing single quotes in your WHERE clause, you need to escape your single quote, just like you did when you inserted it.

Rewrite the code below using the different methods of escaping the single quote.

SELECT * FROM my contacts

	Tron my_concaces
WHERE	
locati	ion = 'Grover's Mill, NJ';
⋒ SE	ELECT * FROM my_contacts
	ERE
loc	eation = 'Grover's Mill, NJ';
_	
SELI	ECT * FROM my_contacts
WHE	ERE
locat	tion = 'Grover\'s Mill, NJ';
•••••	
	Which method do you prefer?

SELECT	drink_name FROM easy_drinks
WHERE	main⊧≑/chemy-juice/;
	drink_name FROM easy_drinks Second = 'apricot nectar';
	drink_name FROM easy_drinks amount1 = 2;
SELECT	drink_name FROM easy_drinks amount2.=.7;
Now write	three SELECT statements that will give you a Bull Frog.
0	SELECT drink_name FROM easy_drinks WHERE main = 'iced tea';
8	SELECT drink_name FROM easy_drinks WHERE second = 'lemonade';
3	SELECT drink_name FROM easy_drinks WHERE amount1 = 1.5;



So I could have found Anne using AND?

Using the my_contacts table, write some queries for Greg. SELECT only the columns you really need to give you your answer. Pay attention to single quotes.

Write a query to find the email addresses of all computer programmers.

SELECT email FROM my_contacts WHERE profession = 'computer programmers';

Write a query to find the name and location of anyone with your birthdate.

SELECT last_name, first_name, location FROM my-contacts

WHERE birthday = '1975-09-05'

Write a query to find the name and email of any single people who live in your town. For extra points, only pick those of the gender you'd want to date.

SELECT last_name, first_name, email

FROM my_contacts
WHERE location = 'San Antonio, TX'
AND gender = 'M"

Write the query Greg could have used to find all the Annes from San Francisco.

SELECT last_name, first_name, email

"FROM my_contacts"
WHERE location = 'San Fran. CA'

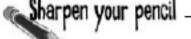
AND first name = 'Anne':

AND status = 'single'.



Your turn to do some mixing. Write queries that will return the following information. Also write down what the result of each query is:

The cost of each drink with ice that is yellow and has more than 33 calories.
SELECT cost FROM drink_info WHERE ice = 'Y' AND color = 'yellow' AND calories > 33;
Result: 14.00
The name and color of each drink which does not contain more than 4 grams of carbs and uses ice.
SELECT drink_name, color FROM drink_info WHERE ice = "Y" AND carbs <= 4;
Result: Blue moon blue The cost of each drink whose calorie count is 80 or more.
SELECT cost FROM drink_jnfo WHERE calories >= 80; Result: 5.50, 3.20, 2.60
Drinks called Greyhound and Kiss on the Lips, along with each one's color and whether ice is used to mix the drink, without using the names of the drinks in your query.
SELECT drink_name, color, ice FROM drink WHERE cost > 3.0;
Result: Kiss on the lips, purple, y, greyhound, yellow, y



Cross out the unnecessary parts of the two SELECTs below and add an OR to turn it into a single SELECT statement.

```
SELECT drink_name FROM easy_drinks WHERE
main = 'orange juice';
```

```
SELECT drink_name FROM easy_drinks WHERE
main = 'apple juice';
```

Use your new selection skills to rewrite your new SELECT.

```
SELECT drink_name FROM easy_drinks
WHERE
main = 'orange juice'
OR
main = 'apple juice'
```



Rewrite the query on the previous page to SELECT all the names of drinks that have more than 60 calories and less than 30.

SELECT drink_name FROM drink_info WHERE calories > 60 AND calories < 30
Calones < 30
Try using BETWEEN on text columns. Write a query that will SELECT the names of drinks that begin with the letters G through O.
SELECT drink_name FROM drink_info WHERE drink_name BETWEEN 'G' AND 'P';
What do you think the results of this query will be?
SELECT drink_name FROM drink_info WHERE calories BETWEEN 60 AND 30;
еггог



Rewrite each of the following WHERE clauses so they are as simple as possible. You can use AND, OR, NOT, BETWEEN, LIKE, IN, IS NULL, and the comparison operators to help you. Refer back to the tables used in this chapter.

SELECT drink_name from easy_drinks
WHERE NOT amount1 < 1.50;
SELECT drink_name FROM easy_drinks WHERE amount1 >= 1.50;
SELECT drink_name FROM drink_info
WHERE NOT ice = 'Y';
SELECT drink_name FROM drink_info 'WHERE ice'='N',
SELECT drink_name FROM drink_info
WHERE NOT calories < 20;
SELECT drink_name FROM drink_info WHERE calories >= 20;