CODE CHALLENGE: QUERIES

Code Challenge 1

The `babies` table has the following columns:

- `name` - the name of the baby
- `year` - the year the name was given
- `gender` - the gender of the baby
- `number` - the number of times the name was given

Click here for the table diagram.

Find the number of girls who were named Lillian for the full span of time of the database.
Select only the `year` and `number` columns.

```
select year, number
from babies
where name  = 'Lillian';
```

Code Challenge 2

The `babies` table has the following columns:

- `name` - the name of the baby
- `year` - the year the name was given
- `gender` - the gender of the baby
- `number` - the number of times the name was given

Find 20 distinct names that start with 'S'.
Select only the `name` column.

```
select distinct name
from babies
where name like 'S%'
limit 20;
```

Code Challenge 3

The `babies` table has the following columns:

- `name` - the name of the baby
- `year` - the year the name was given
- `gender` - the gender of the baby
- `number` - the number of times the name was given

What are the top 10 names in 1880?
Select the `name`, `gender`, and `number` columns.

```
select distinct name, gender, number
from babies
where year = '1880'
order by 3 desc
limit 10;
```

Restaurants Introduction

Next up, you will be querying data on restaurants:

1. Baby Names
2. **Restaurants**
3. News Headlines

We need your help to answer some questions and find the best dinner spots in the city!
You'll work with a table named `nomnom` with six columns.

Code Challenge 4

The `nomnom` table has the following columns:

- `name` - the restaurant name
- `neighborhood` - the neighborhood name
- `cuisine` - the cuisine type
- `review` - the average user review
- `price` - the price range
- `health` - the health inspection grade

Suppose your friend Jaime wants to go out to Japanese, but you're on a budget.
Return all the restaurants that are `Japanese` and `$$`.
Select all the columns.

```
select *
 from nomnom
 where cuisine = 'Japanese'
 and price = '$$';
```

Code Challenge 5

The `nomnom` table has the following columns:

- `name` - the restaurant name
- `neighborhood` - the neighborhood name
- `cuisine` - the cuisine type
- `review` - the average user review
- `price` - the price range
- `health` - the health inspection grade

Your roommate Bevers can't remember the exact name of a restaurant he went to but he knows it *contains* the word 'noodle' in it.

Can you find it for him using a query?
Select all the columns.

```
select *
 from nomnom
 where name like '%noodle%';
```

Code Challenge 6

The `nomnom` table has the following columns:

- `name` - the restaurant name
- `neighborhood` - the neighborhood name
- `cuisine` - the cuisine type
- `review` - the average user review
- `price` - the price range
- `health` - the health inspection grade

Some of the restaurants have not been inspected yet or are currently appealing their health grade score.
Find the restaurants that have empty `health` values.
Select all the columns.

```
select *
 from nomnom
 where health is null;
```

News Headlines Introduction

Here is the last dataset of the Code Challenge #1:

1. Baby Names
2. Restaurants
3. **News Headlines**

There is a table called `news` with six columns.
It is full of news article headlines from different publishing companies!

Code Challenge 7

The `news` table has the following columns:

- `id` - the article identifier
- `title` - the article title
- `publisher` - the article publisher
- `category` - the article category
- `timestamp` - the time of publication

- `url` - the article web address

Order the table by `title` (from A-Z).
Select only the `title` and `publisher` columns.

```
SELECT title, publisher
FROM news
ORDER BY title ASC;
```

Code Challenge 8

The `news` table has the following columns:

- `id` - the article identifier
- `title` - the article title
- `publisher` - the article publisher
- `category` - the article category
- `timestamp` - the time of publication
- `url` - the article web address

Which article names have the word `'bitcoin'` in it?
Select all the columns.

```
select *
 from news
 where title like '%bitcoin%';
```

Code Challenge 9

The `news` table has the following columns:

- `id` - the article identifier
- `title` - the article title
- `publisher` - the article publisher
- `category` - the article category
- `timestamp` - the time of publication
- `url` - the article web address

The `category` column contains the article category:

- `'b'` stands for Business
- `'t'` stands for Technology

What are the 20 *business* articles published most recently?
Select all the columns.

```
select *
 from news
 where category = 'b'
 order by timestamp desc
 limit 20;
```

The End

You just completed Code Challenge: Queries!
Feel free to experiment more with all three tables. For example:

- Is your name in `babies`?
- How many babies were given your name?
- What are the top 5 restaurants in `nomnom`?
- What are the top 5 Chinese restaurants?
- Which articles are from Wall Street Journal in `news`?
- Which technology articles are from Wall Street Journal?