

Queries

Step 1: Review Tables

1. What is a table and what is in the Event table?

Tables are database objects that contain all the data in a database. The event table is a database table created by the user, generally within the same schema as the application table for which it stores events.

2. What is in each ROW of the Event table>

Each row in the table represents an independent event. When several events controlling the same output collide, the subsequent event masks the preceding one.

3. What is in each COLUMN of the Event table>

A column represents specific attributes. For instance data, time, or location.

4. Why does each Event have an id? (hint: why do YOU have an id?)

If we don't have an ID then multiple data either matched to the same ID, or multiple IDs would match to the same data. It will be hard to find a specific data in a large database.

Step 1: Practice Querying

Your SQL zoo screen shots

Introducing the `world` table of countries

1. 😊

The example uses a `WHERE` clause to show the population of 'France'. Note that strings (pieces of text that are data) should be in 'single quotes';

Modify it to show the population of Germany

```
SELECT population FROM world
WHERE name = 'Germany'
```

Submit SQL

Restore default

Correct answer

population
80716000

Scandinavia

2. 😊

Checking a list The word `IN` allows us to check if an item is in a list. The example shows the name and population for the countries 'Brazil', 'Russia', 'India' and 'China'.

Show the name and the population for 'Sweden', 'Norway' and 'Denmark'.

```
SELECT name, population FROM world
WHERE name IN ('Sweden', 'Norway', 'Denmark');
```

Submit SQL

Restore default

Correct answer

name	population
Denmark	5634437
Norway	5124383
Sweden	9675885

Just the right size

3. 😊

Which countries are not too small and not too big? `BETWEEN` allows range checking (range specified is inclusive of boundary values). The example below shows countries with an area of 250,000-300,000 sq. km. Modify it to show the country and the area for countries with an area between 200,000 and 250,000.

```
SELECT name, area FROM world
WHERE area BETWEEN 200000 AND 250000
```

Submit SQL

Restore default

Correct answer

name	area
Belarus	207600
Ghana	238533
Guinea	245857
Guyana	214969
Laos	236800
Romania	238391
Uganda	241550
United Kingdom	242900

Step 3: Write Some Event Queries

1. A query to find all the info needed to create the Event page for the Event with an id of "event1"

```
SELECT id, name, price FROM Event WHERE id="event1";
```

2. A query to find price of the Event with the name "Ender's Game"

```
SELECT price FROM Event WHERE name="Ender's Game";
```

3. A query to find the name and id of ALL events so that we can build an ALPHABETICAL list of all the events

```
SELECT id, name FROM Event ORDER BY name ASC;
```