

QUIZ

What will the result be after running the following code?

```
db.run("DROP TABLE Employee", error => {  
  db.run(`CREATE TABLE Employee(  
    ID INT NOT NULL,  
    NAME CHAR(20) NOT NULL,  
    PRIMARY KEY(ID))`, error => {  
    db.run("INSERT INTO Employee [(id, name)] VALUES (1, 'Sophie')", error => {  
      })  
    })  
  })  
});
```

The code will successfully **DROP**, **CREATE**, and **INSERT** a new row into the newly recreated database.



Correct! Although rewriting to use `db.serialize()` will make it easier to read.

The code will raise an error when an **INSERT** gets called before the table is created.

Where would an error appear in the following methods: `db.all()`, `db.get()`, `db.run()`, and `db.each()`?

The error gets bound as a property to `this` in the callback.

The error gets printed to the web browser's console.

The first argument in the callback will be an **Error** object.



Correct!

What should go in the blank so that the function `retrieve_name` prints the records matching the first name given to it?

```
const retrieve_name = name => {  
  db.get("SELECT * FROM Employee WHERE first_name=$employeeName",  
    _____,  
    (error, rows) => {  
      console.log(row);  
    });  
}
```

`{ $employeeName: name }`



Correct!

`const $employeeName = name;`

What method should be used so that each row gets added to the JavaScript object?

```
let employee = {}  
db.____("SELECT * FROM Employee",  
  (error, row) => {  
    employee[row.id] = row.name  
  }  
);
```

`.each()`



Correct!

`.serialize()`

`.get()`

Which of the following would create a new SQLite database at the path `./newdb.sqlite`?

```
const db = new sqlite3.createDB('./newdb.sqlite');
```

```
const db = new sqlite3.Database('./newdb.sqlite');
```



Correct!

```
const db = sqlite3.Database('./newdb.sqlite');
```

Which of these methods should be used with the following query in order to retrieve all books written by Mark Twain?

```
SELECT * FROM Book WHERE author='Mark Twain';
```

```
db.every()
```

```
db.get()
```

```
db.all()
```



Correct!

```
db.many()
```

This code is intended to insert a new row into the `Pasta` table and then retrieve it and log it out. Why would this code not work as intended?

```
db.run('INSERT INTO Pasta (pasta_type, sauce) VALUES ("spaghetti", "carbonara")',
  (error) => {
    if (error) {
      return console.log(error);
    }
    db.get(`SELECT * FROM Pasta WHERE id = ${this.lastID}`, (error, row) => {
      if (error) {
        return console.log(error);
      }
      console.log(row);
    });
  }
);
```

The callback function for `db.run()` is an arrow function, instead of a `function` keyword function, so `this` will be bound incorrectly and not have a `lastID` property.



You got it!

What needs to be done for the database to run multiple commands chronologically?

Pass an argument to `db.run()`, called `stepIndex`, that will indicate which step it should run as.

Use the `db` method call `.serialize()` and then write the commands in order.



Correct!

Write the commands in order, the database will process them as it gets them.

Which command would you use to create a new table, `Employee`?

```
db.run("CREATE TABLE Employee");
```



Correct!

```
db.get("CREATE TABLE Employee");
```

```
db.serialize("CREATE TABLE Employee");
```

Which of the following methods will return either a single row or `undefined`?

`db.serialize()`

`db.all()`

`db.get()`



Correct!

`db.run()`

What should we do to guarantee the following code runs as expected?

```
db.run("DROP TABLE Employee");
db.run(`CREATE TABLE Employee(
  ID INT NOT NULL,
  NAME CHAR(20) NOT NULL,
  PRIMARY KEY(ID))`);
db.run("INSERT INTO Employee (id, name) VALUES (2, 'Quinn')");
```

Wrap the code in a call to `db.each()`

Run it, looks good to me!

Wrap the code in a call to `db.serialize()`.



Correct!

Which of these methods doesn't return row data from the database?

`db.get()`

`db.all()`

`db.run()`



Correct!

`db.fetch()`