Instructions

Parts Unlimited catalogs its seemingly unlimited parts, and we need a service built which will be used by other teams to manage various aspects of them through the existing endpoint. We need you to develop a new API to be used that allows for CRUD operations on parts, in line with the functionality of our other views. We need you to accomplish the following tasks, and return a .zip of the project containing all changes necessary to accomplish all goals of both tasks. Make sure you include a README with how to run your project.

You may use whatever language you're comfortable in, and should use this as an opportunity to show us your best work. Some of our core tenancies in software engineering are: writing DRY code, simple is better than complex and automated testing.

Task 1

We'd like to build a REST api that has standard CRUD operations for the part table, provided below. This includes creating, updating, retrieving, viewing and deleting parts, using best practices for REST APIs.

Part Table

```
CREATE TABLE part (
     id INTEGER PRIMARY KEY,
     name VARCHAR(150),
     sku VARCHAR(30),
     description VARCHAR(1024),
     weight_ounces INTEGER,
     is_active TINYINT(1)
);
INSERT INTO part (name, sku, description, weight_ounces, is_active)
VALUES
('Heavy coil', 'SDJDDH8223DHJ', 'Tightly wound nickel-gravy alloy
spring', 22, 1),
('Reverse lever', 'DCMM39823DSJD', 'Attached to provide inverse
leverage', 9, 0),
('Macrochip', 'OWDD823011DJSD', 'Used for heavy-load computing', 2,
1);
```

Task 2

To support our Sales team, we'd like to build an additional endpoint as part of the same API that returns the 5 most common words in our part descriptions.