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My colleague Mark Needham and I were very keen to get our hands on a new data set: BBC goodfood recipes. Each recipe has a lot of interesting data from ingredients, types of diets, nutrition and so on. This gives us many opportunities to try out a large database schedule of use cases in a fun environment. Before we started on these usage cases, we need to get this data. In this post we will show you several ways to get this data in neo4j: Overview situationGraph database is fantastically suited in many business usage cases. We suspect that many of you have stumbled upon them, including: Recommendations from the Office of Data Resolution Resolution Detection and more! Graph databases are very appropriate because the relationship between data objects is evaluated in the same way as the nature of the data. You look not only at the object itself, but also at the context of other entities. There is a lot of material on this on the internet. For those of you who are interested in more, take a look here. So we have great technology, and we have some neat examples that we want to apply. All we need is a delicious data set to work with. There are a great set of examples ready for you to get your hands on through Neo4j GraphGists. However, for this post we decided to do something a little different... BBC goodfood has a fantastic selection of recipes. It has long been an extremely popular resource for novice chefs, and for those looking for something different while eating. There is a wide range of choices covering a variety of dishes, cuisines and dietary requirements. BBC goodfood seriously rich chocolate cake Acces one of the recipes (who can not imagine what a seriously rich chocolate cake?), we see we have a lot of useful information such as ingredients, food, user ratings, and so on. By researching the source code for the page, we find that we have a very neat object that gives us useful summary information: What, if we untie, will look like something like this: It will be worth the data set to import. We can ask some very interesting questions, such as: What are the most commonly used ingredients? Recommend me recipes based on the author/ingredient/diet/ eat these ingredients that I can cook? Now we've downloaded some recipes that we want to explore (on the reader to take this step, including parsing). How can we get this data in Neo4j? There are a number of mechanisms that allow us to get data in Neo4j. Below we explore two approaches. First approach - LOAD CSVTo start with, we may just want to explore the ingredients for recipes. That is, we extract recipes unique id, name, and list of ingredients. Fast and the way to get data in Neo4j will be using LOAD CSV (Comma Divided Value). Our graphic data model will look like this: to get the recipe data in format, we offer the following format ID, name, ingredient. The snippet will look like this: Once we've got all the recipe data in this flat file format, we can now download it to Neo4j using Cypher queries. To run this query in Neo4j Browser, you must insert each line that ends separately. You can also turn on the multi-stage statement mode (in the browser go to the settings and mark 'Enable multi-stage query editor)... Save the file in the import folder and run the following: if you have a particularly large file, you may want to consider a periodic commit. With some data now, we can ask a few simple questions such as, what are the most common ingredients? Or how about offering some other recipes that are similar to this chocolate cake? Here's a simple query that will make some recommendations for recipes using basically the same ingredients: It's a great start and there are many things to explore with this data. However, it would be nice to get the rest of this page object. Also, instead of creating a wordy CSV file, wouldn't it be better if we could use this object as is? The second approach is load.jsonThis where the APOC library comes in. APOC (Component Package) is a set of features defined by the user, packaged together and called cypher request. To install APOC on your copy of the Neo4j database, check here. We're going to use load.json to give out all these page objects. Once you've removed all the objects in the file, we can now work out the next query (also a multi-layered statement). If you want, you can use our import file. You'll notice we download the file several times - this is to reduce the urge to import data: You can download it and disassemble it locally. Note that you will need to change the path to be an absolute path to file on your machine, for example, file http://it:absolutepath/stream_all.jsonit is an absolute path, not relative, as in the case of LOAD CSV. You will also need to add the following line to the Neo4j configuration file: And there we have it, a rich and interesting data set to study in the graph database. If you go back to the chocolate cake, what else has the author published? SummaryWe've shown the principles of downloading recipe data in Neo4j using either CSV, or load.json. There's even a simple recommendation request to get you started with recipe data. This rich data set gives us even more things to explore. For example, approaches to the resolution of the essence: does cherry tomatoes refer to tomatoes or cherries? Or, can we start creating a common community recipe, such as for cakes? Some food for thought indeed! Heat Up to 180C/350F/Gas 4 and grease and line two 20cm/8in sandwich cans with baking parchment. Put the cocoa powder and boiling water in a large bowl and mix well to make a zlt/absolutepath.gt; Add the remaining ingredients and beat again until combined. It can also be done in a food processor, but take care to no more whisk. Divide the cake mixture between the prepared jars. Bake for about 25-30 minutes, or until well raised and reduced from the sides of the tin. Meanwhile, for the icing and filling, measure the chocolate and cream together in a bowl and stand a bowl in a pan of boiling water for 10 minutes, or until melted. Stir from time to time. Set aside and leave to cool. After baking, remove the cakes from the oven and allow to cool for 10 minutes before turning from the jar to a wire rack to cool completely. Spread the top of each cake with apricot jam. Fill the cakes with half the icing and spread the rest of the top. Draw a large S shape over the cake with a palace knife to give the vortex effect. Dust with powdered sugar and serve in slices. Perfect for birthdays, it is a reliable and very simple chocolate cake recipe. It is so humid and fluffy and will hold up well for 4-5 days. Each serving contains 477 kcal, 6.5 grams of protein, 56 grams of carbohydrates (of which 40 grams of sugar), 25 grams of fat (of which 10.5 grams of saturation), 2.5 grams of fiber and 0.6 grams of salt. Master chocolate cake with airy, light sponge and rich buttercream filling. It's simple enough for afternoon tea, but special enough for a party too, treat yourself to this ultimate chocolate cake recipe that is beautifully moist, rich and fluffy. Perfect for celebrating or afternoon tea Complex and intensely chocolate with a hit of juicy raisins and crispy cookie pieces, serve this decadent chocolate cake fridge as a teatime treat Who can resist our chocolate and raspberry cake? Like Victoria Sponge, but better, try the budget-friendly frozen raspberry for cream This rich cake makes an impressive centerpiece for any summer tea party Chocolate and Cake two of our favorite things, so what's not to love about this indulgent cake? Not only are these chocolate squares a great way to use excess courgettes, they are topped with rye crumbs and sea salt for a chocolate cake with a twist of dense, dark and fiendishly delicious cake, it will disappear before you know this Tahini gives this cake a subtle nutty flavor that partners perfectly with rich chocolate. This recipe makes 2 cakes, so why not freeze one as a treat for another day! Sandwich our best ever chocolate sponge with fruity coconut mousse and smother in rich ganache for a stunning party central This indulgent, fluffy vegan bake is topped with rich icing - you'll never guess that it's free of dairy, eggs, wheat and nuts Antigravity cakes should have a trend this year on birthdays or parties - Stunning Cake Smartie will delight kids and adults, try a big slice of warm with ice cream stack our best ever chocolate chocolate and smother in oreo cookies icing to make this towering cake celebrating This rich, dark sponge is filled and covered in thick chocolate custard, and then finished with a crumbled cake - best of all eat the chilled drip cake smothered in cream cheese icing and drizzle with dark chocolate ganache - a stunning centerpiece for the big occasion Give the chocolate cake zesty to decorate -- an irresistible taste of pairing you'll never guess what is a rich flavor, light-textured sponges below in fat, calories and sugar thanks to ground almonds and yogurt Give the coffee cake the ultimate update - layer with chocolate hazelnut glaze, add creamy topping and sprinkle with crushed nuts Dark, rich and delicious - the perfect dessert, finish with double cream This towering cake has layers of chocolate sponge, no and no chestnut But a juicy hazelnut cake - serve a slice for dessert with a piece of creme fraiche Try something different with Sarah Cook's pistachios and milk chocolate squares - you won't be able to stop for just one piece! Piece! bbc good food guide easy chocolate cake. bbc good food guide chocolate fudge cake. bbc good food guide chocolate brownie cake. bbc good food guide ultimate chocolate cake. bbc good food guide vegan chocolate cake

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