Cypher Lab Exam

Ronan Kelly

21374881

Q1: match (n:Recipe) return n = 11634

Q2: MATCH (n)

WITH labels(n) AS labels

RETURN labels, COUNT(\*) AS count

ORDER BY count DESC; =

Keyword

Recipe

Ingredient

Collection

Author

DietType

Q3: MATCH path = (r:Recipe {name:"Balinese chicken satay"})-[:CONTAINS\_INGREDIENT]->(i:Ingredient)

RETURN path =

Minced chicken

Desicated Coconut

Lime leaf

Banana Leaf

Ground Nutmeg

Lemongrass

Groundnut oil

Root ginger

Ground Cloves

Red Chilli

Ground Turmeric

Garlic Clove

Shallot

Q4: MATCH (r:Recipe)

WHERE (r)-[:CONTAINS\_INGREDIENT]->(:Ingredient {name: 'chicken'})

RETURN r.name AS recipe,

[(r)-[:CONTAINS\_INGREDIENT]->(i) | i.name]

AS ingredients limit 10 =

"Pull-apart chicken with green curry & lime leaf dressing”

"Chicken, bacon & watercress baguettes"

"Really easy roast chicken"

"Chicken wrap with sticky sweet potato, salad leaves & tomatoes"

"Fried egg Milanese"

"Griddled chicken with quinoa Greek salad"

"Herby roast chicken with garlic lemon toasts"

"Lemon & garlic roast chicken with charred broccoli & sweet potato mash"

"Chicken & sweetcorn soup"

"Chicken with lemons, sumac & spiced yogurt"

Q5: 291 recipes

Q6: MATCH (r:Recipe)-[:CONTAINS\_INGREDIENT]->(i:Ingredient {name: 'chicken'})

WITH r, COLLECT(i.name) AS ingredients

WHERE r.name IS NOT NULL AND ingredients IS NOT NULL AND r.cookingTime IS NOT NULL

RETURN r.name AS recipe, ingredients, r.cookingTime AS cooking\_time

ORDER BY r.cookingTime DESC

LIMIT 1; =

"Normandy pork with apples & cider" - 30600

Q7: MATCH (r:Recipe)-[:CONTAINS\_INGREDIENT]->(i:Ingredient {name: 'chicken'})

WITH r, COLLECT(i.name) AS ingredients

WHERE r.name IS NOT NULL AND ingredients IS NOT NULL

RETURN r.name AS recipe, ingredients, r.cookingTime AS cooking\_time

ORDER BY CASE WHEN r.cookingTime IS NULL THEN 1 ELSE 0 END, r.cookingTime DESC;

42 recipes

Q8: MATCH (r:Recipe)

WHERE (r)-[:CONTAINS\_INGREDIENT]->(:Ingredient {name: 'chicken'})

AND (r)-[:CONTAINS\_INGREDIENT]->(:Ingredient {name: 'chickpeas'})

RETURN r.name AS recipe,

[(r)-[:CONTAINS\_INGREDIENT]->(i) | i.name]

AS ingredients =

"Herby spatchcocked chicken with crisp chickpeas & wild garlic labneh"

"Chicken with pumpkin & chickpeas"

"Roast chicken with peppers & feta"

"Chicken with roots & chickpeas"

"Spanish chicken with chorizo, potatoes & chickpeas"

Q9: MATCH (a:Author)-[:WROTE]->(r:Recipe)

WITH a, COUNT(r) AS recipeCount

WHERE recipeCount = 1

RETURN COUNT(a) AS authors; =

125 Authors

Q10: