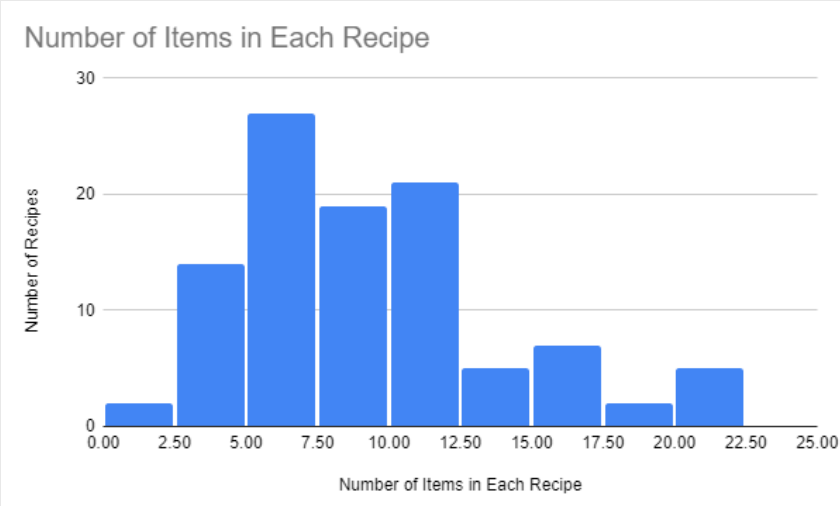# Team 3: UnderCooked

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Technologies used:

- *SQL and DataGrip to create back-end tables*

- *Java to create classes to manipulate back-end data*

- *JavaFx to create front-end design to display back-end data*
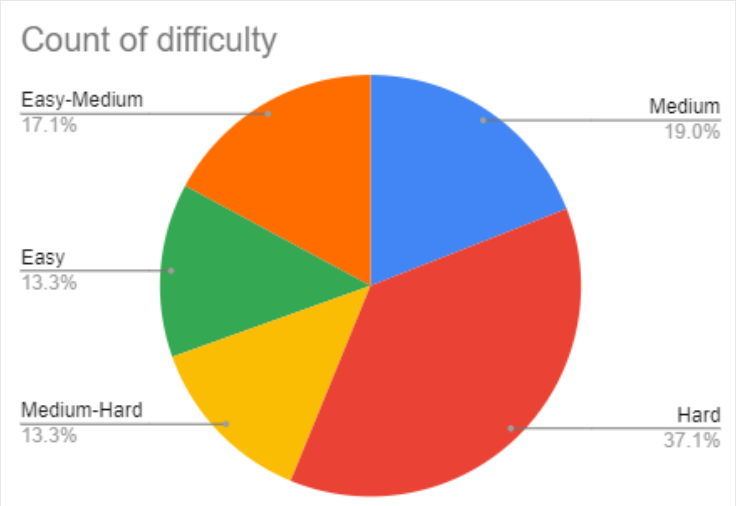
Data Analysis:


```
SELECT COUNT(item_id), recipe_id
FROM made_of
GROUP BY recipe_id
ORDER BY COUNT(item_id)
```

Data shows that the most of our recipes have an average of 9.05 ingredients with a standard deviation of 4.65 ingredients.

Data shows that a larger percentage of our users are making hard recipes lower percentage are making easy recipes.

```
SELECT recipe_name
FROM recipe
WHERE recipe_id
    IN (SELECT recipe_id
        FROM has_cooked)
```

	recipe_name
1	25lb Sour Patch Woman
2	30lb Sour Patch Man

Data shows that users of our application enjoy Sour Patch. We would expect that more users create recipes from the Sour Patch category.

Example data:

	username	password	creation_date	creation_time	last_access_...	last_access_time
1	123456789	password	1997-10-02	15:32:00	1997-10-02	15:32:00
2	iloveyou	princess	1942-04-24	22:51:00	1942-04-24	22:51:00
3	1234567	rockyou	1950-03-15	11:26:00	1950-03-15	11:26:00
4	12345678	abc123	1994-10-18	18:12:00	1994-10-18	18:12:00
5	nicole	daniel	1960-11-11	14:18:00	1960-11-11	14:18:00
6	lovely	jessica	2003-07-16	12:42:00	2003-07-16	12:42:00
7	654321	michael	1948-06-20	13:56:00	1948-06-20	13:56:00
8	ashley	qwerty	1952-11-16	17:55:00	1952-11-16	17:55:00
9	111111	iloveu	1947-07-03	10:47:00	1947-07-03	10:47:00
10	000000	michelle	1935-03-02	17:36:00	1935-03-02	17:36:00

Here we can see the data taken from the *chefs* table. This information is necessary for the user to be able to log into their specific account. We use this data to verify user log-in and registration. The *creation* and *last_access* is later displayed on the front-end home page.

	username	recipe_id
1	123456	137739
2	123456789	31490
3	iloveyou	112140
4	1234567	59389
5	12345678	44061
6	nicole	5289
7	babygirl	25274
8	lovely	67888
9	654321	70971
10	ashley	75452

Here we can see the data taken from the *owns* table. This data represents a relationship between the *chefs* and *recipe*. This data is used to determine the recipe's initial creator. The recipe is shown as its primary key, *recipe_id*.

	item_id	recipe_id	quantity
1	100000	137739	6
2	100001	137739	2
3	100002	137739	5
4	100003	137739	4
5	100003	67888	6
6	100003	90921	7
7	100003	93959	9
8	100003	108414	9
9	100003	84797	8
10	100004	137739	3

Here we can see the data taken from the *made_of* table. This data represents the relationship between the recipe and its ingredients. Each recipe is shown as *recipe_id* with each ingredient, *item_id*, and its quantity per recipe, *quantity*. This data is used when displaying a recipe and when cooking the recipe.