

# **Grocery store statistics and restaurant sales vs. COVID-19**

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## **Project Description/Outline:**

COVID-19 shifted people's behavior and how they shop. Our goal is to investigate the effect of COVID-19 on the businesses, specifically grocery shops and restaurant sales. Since February the country went through from lockdown to several phases of opening. Below mentioned questions will help us understand the new trend and analyse the data.

## **Research Questions to Answer:**

- Do people actually shop more in grocery stores?
- Do they shop online? If yes...
- Do they order food online through UBEReats or DoorDash?
- Are restaurants more successful?
- How many restaurants have closed down due to COVID?
- Is it because they don't have online ordering options available?
- Will the food industry (ordering and payments) be pushed by COVID-19 to move towards tech? (Like ordering from your phone instead of ordering from a server, or grocery shopping online and getting it delivered) How will this affect jobs?

## **Data Resources:**

- <https://www.census.gov/retail/index.html>
- <https://fred.stlouisfed.org/series/RSGCS>
- <https://tradingeconomics.com/united-states/corporate-profits>
- <https://www.bea.gov/data/income-saving/corporate-profits>

## Rough Breakdown of Tasks:

Date	Task	Deliverables	
		Delivered	Expected
9/26 - 9/28	<ul style="list-style-type: none"> <li>- Agree on Project Topic</li> <li>- Draft rough proposal</li> <li>- Discuss data gathering methods and resources</li> <li>- Submit draft proposals to Instructors</li> </ul>	<ul style="list-style-type: none"> <li>- Project topic chosen</li> <li>- Draft proposal ready for review</li> <li>- Initial sources of data identified</li> </ul>	<ul style="list-style-type: none"> <li>- Submit draft proposals</li> </ul>
9/28 - 9/30	<ul style="list-style-type: none"> <li>- Project repository to be created</li> <li>- Initial data gathering</li> <li>- Allocation of analysis tasks</li> </ul>	-	<ul style="list-style-type: none"> <li>- Repository to be created</li> <li>- Group members invited to the repository</li> <li>- Data stored and accessed by group</li> <li>- Tasks allocated.</li> </ul>
10/1 - 10/3	<ul style="list-style-type: none"> <li>- Data cleaning and formatting</li> <li>- Review of new data sources or data if there is any</li> </ul>		<ul style="list-style-type: none"> <li>- Data to be ready for analysis</li> <li>- Review new data and sources</li> </ul>
10/4 - 10/5	<ul style="list-style-type: none"> <li>- Progress review</li> <li>- Review of codes</li> <li>- Revisit project objectives</li> </ul>		<ul style="list-style-type: none"> <li>- Check if analysis and outputs are inline with project objectives</li> </ul>
10/5 - 10/6	<ul style="list-style-type: none"> <li>- Write up of results and findings</li> <li>- Preparation of slides for presentation</li> <li>- Mock presentation</li> </ul>		<ul style="list-style-type: none"> <li>- Write up to be completed by 10/6</li> <li>- Slides prepared</li> <li>- Practice Presentation</li> </ul>
10/7	<ul style="list-style-type: none"> <li>- Presentation</li> </ul>		