

1. Database Schema - business requirement ideas.
  - Store data on store (name, zipcode, address, manager)
  - Store data on its employees (role, hiring data, designation, personal information, employee schedule such as shifts, absence, etc.)
  - Inventory data
  - Vendors/suppliers and which products they supply
  - Sales transactions at the item level
  - Customer data for online/third party orders...example, zipcodes, address, phone number?)
  - Expiry/wastage tracker of products
  - Track refunds/exchanges?
  - Create a website for customers to start shopping online.

2. Team Contract:

By now you must be more familiar with your scenario and have a more detailed plan of action. Break down your project into tasks and responsibilities and decide who is responsible for what. Develop a timeline of activities. For each team member, detail which part they are responsible for and by when it will be completed. It is okay to work on all tasks as a team without breaking down by team members but you must state so. The Team Contract you submit in this Project Checkpoint will be used in the end to grade your final project submission. Note that the final project will be evaluated both as an overall product and by its individual parts that each of the team members were responsible for.

We have decided to have 2 people work together to complete a checkpoint starting from Project Checkpoint 3. For PC3, Kristen and Depali will work on designing the database schema which we aim to have completed by 11/11. For PC4, Adeel and Malaikah will work on transforming and entering the data into our database system, which will be completed by 11/18. For PC5, Sana and Philip will work on the customer interaction plan, which will be completed by 11/25. All team members will contribute to the final presentation and the report which will be completed by 12/3.

#### Potential Business Requirements:

1. Store data on employees, staffing, inventory, vendors, pos\_transactions, sales, accounting, products, online orders, promotions, customers
2. Calculate the profitability of each store
3. Keep track of staffing at each store, including shifts and time off
4. Identify high-traffic areas in each store (aisles and shelves that sell out quickly)
5. Support an online-ordering system
6. Track promotional activity, (i.e. coupons, discounts, holiday promotions)

7. Generate real-time dashboards for sales trends