

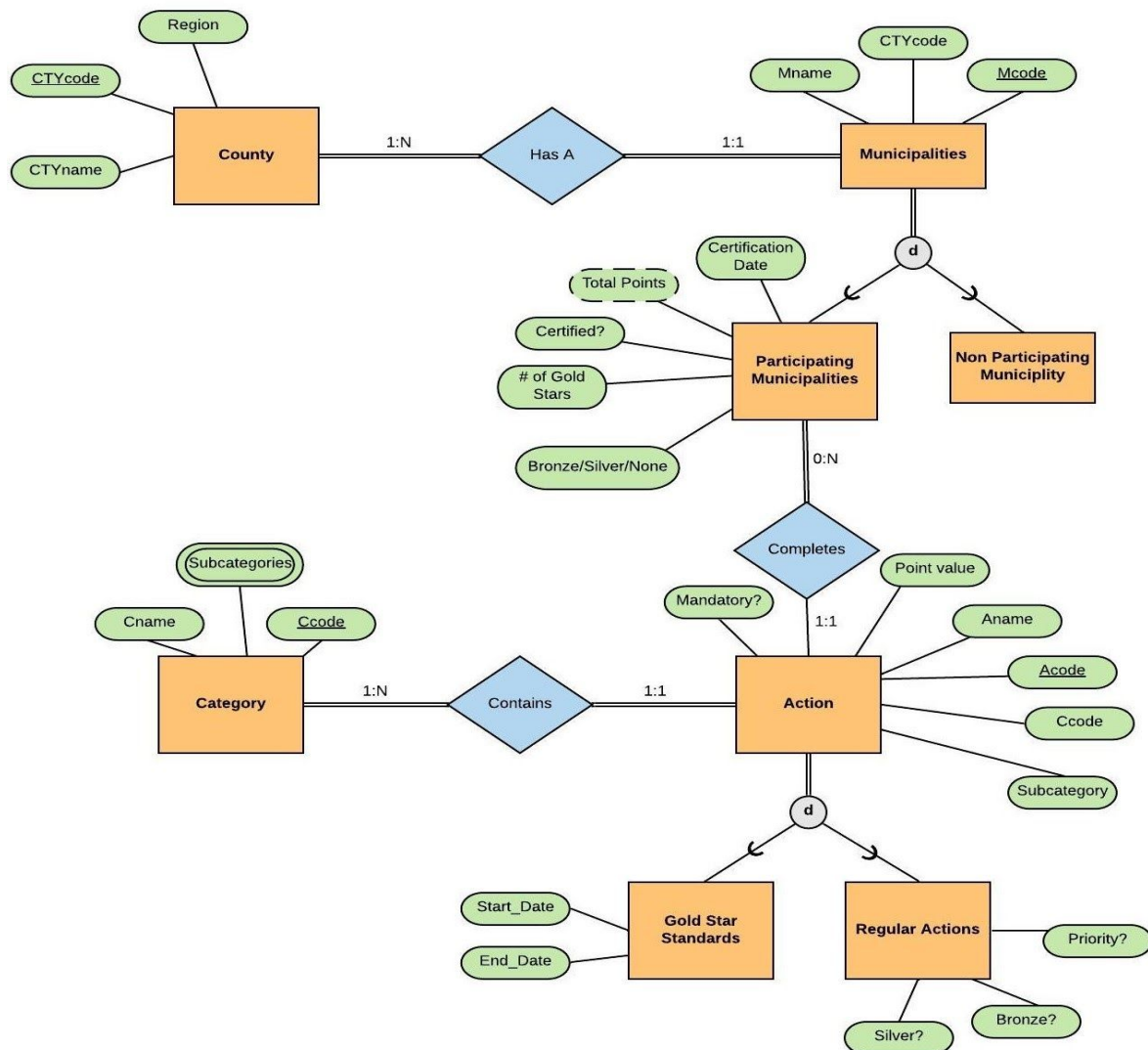
Stage III: Data Model (Group 4)

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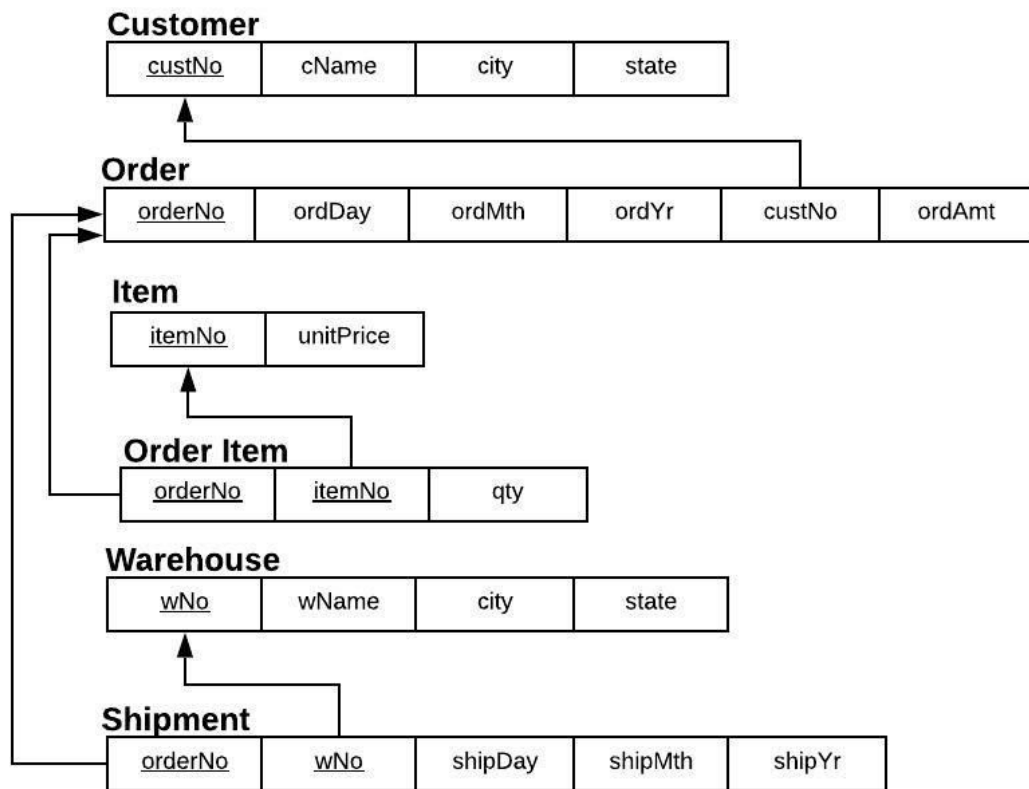
Link to LucidChart:

https://www.lucidchart.com/documents/edit/897a80eb-bf1d-41a9-9c7d-81e4dfc2bb1c/0_0?share_d=true

ER Diagram



Relational Schema



Additional Information

- Initial Database Size (approximate number of records)
 - Our initial database hold **750** records
 - Counties: 21
 - Municipalities: 565
 - Participating Municipalities: 455
 - Non Participating Municipalities: 110
 - Actions: 146
 - Gold Star Standards: 2
 - Regular Actions: 144
 - Categories: 18
- Types and average number of searches

- Our initial estimate of queries that will be used in a typical user session is around **10 queries**
 - We got this rough estimate because we are planning to have multiple drop-down menus where users can choose many variables to filter the data to their liking. The menus we currently have are below...
 - Graph Type
 - Municipality / Location
 - Sustainability Point Amount
 - Gold Star?
 - Silver Star?
 - Bronze Star?
 - Certifications
 - Certification Date Range
 - Actions Taken
 - Categories of Entries
 - *Note: We are likely going to implement a way for users to generate up to 2 charts at once so they can compare data. This would bring the potential query usage per session up to around **20 queries***