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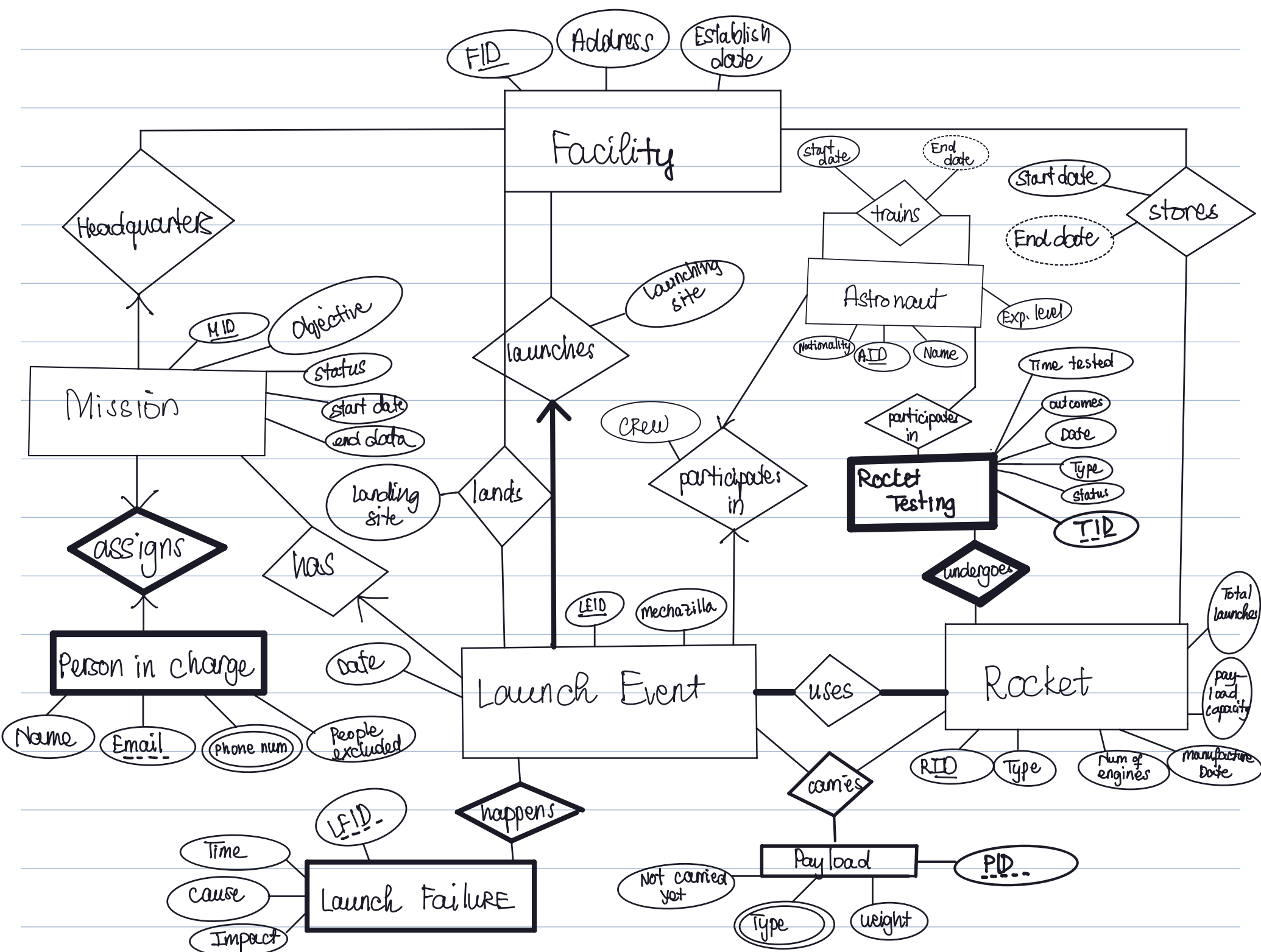
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Subject name: Database Systems

Assignment 1

① Conceptual Model:



② Assumption

- Rocket Testing is a weak entity which can't be uniquely identified without owner entity - Rocket and its PK - RID.

Thus, Rocket Testing can only be uniquely identified by the composite attribute of TID and RID,
(Test ID) (Rocket ID)

- Similarly, Person in charge is a weak entity uniquely identified by the composite attribute of Email and MID
(Mission ID)

- similarly, Launch Failure is a weak entity uniquely identified by the composite attribute of LFID & LEID (Launch Event ID)
(Launch Failure ID - surrogate attribute)

- If the rocket doesn't come back, landing site & Mechazilla

becomes NULL.

- If multiple failures occur at the same time, each will be recorded as a separate entry.
- If a racket is stored and taken out in the same day, a new session will be recorded.

③ Physical Design

