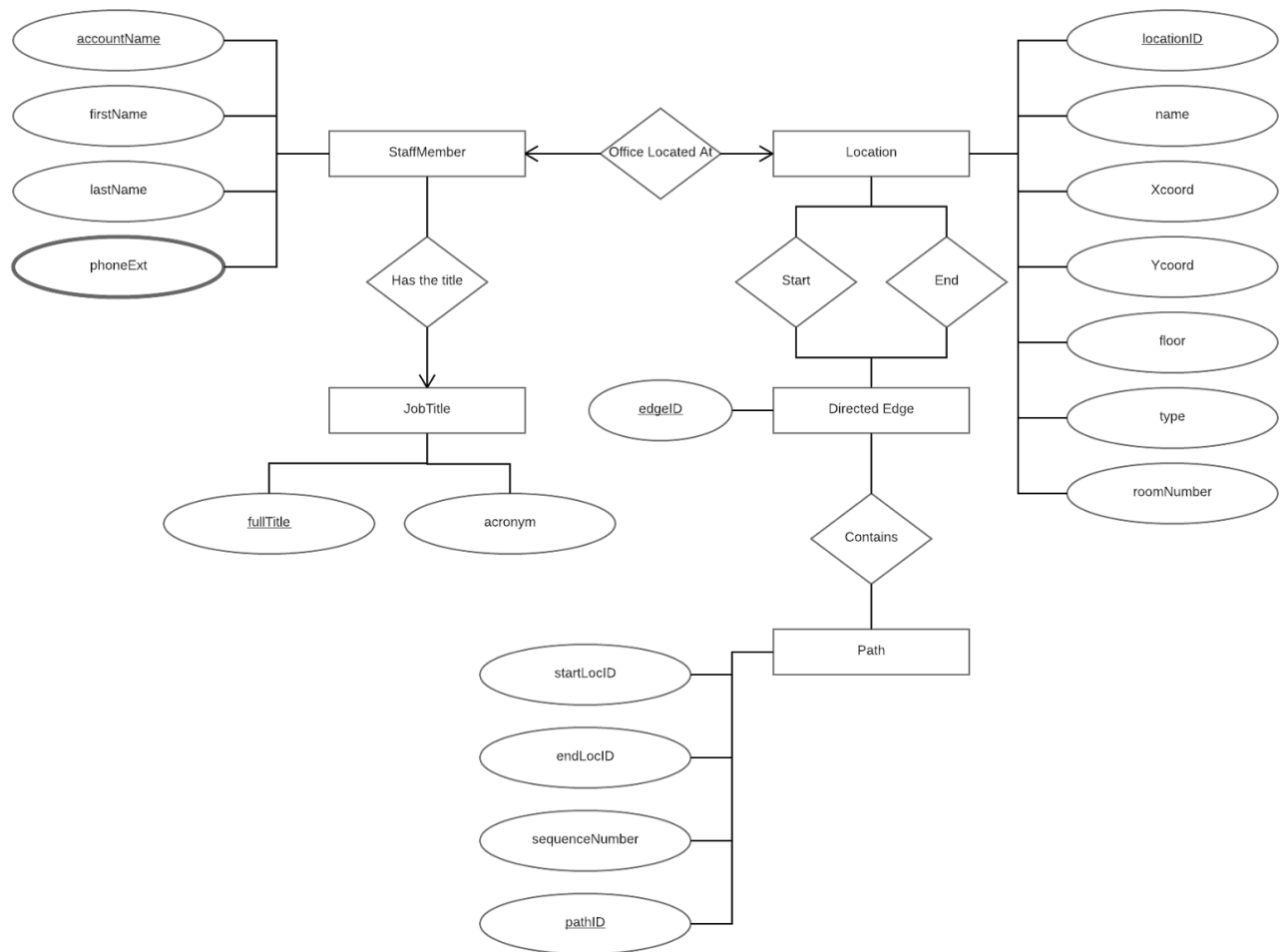


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Project #1
CS 3431

1.



2. Assumptions

1. accountName for a staff member is unique
2. an edge can be defined by 2 locations — a point A and point B — these are ordered and thus implies direction
3. a location can be in any number of directed edges
4. A path contains an ordered list of edges, in first normal form
5. Each path segment needs a sequence number for order
6. StartLocID and EndLocID are foreign keys that relate to respective locationID's for the start of the path and the end of the path

3. Relational model

JobTitles(fullTitle, acronym)

FLocations(locationID, locationName, Xcoord, Ycoord, floor, locationType, roomNumber)

StaffMembers(accountName, firstName, lastName, phoneExt, **fullTitle**, **officeID**)

DirectedEdges(edgeID, **startLocID**, **endLocID**)

Paths(pathID, **startLocID**, **endLocID**, sequenceNumber, **edgeID**)

4. See *p1.sql* file