



Database Design Exercise

Site	Web	Plot	Quad	SPECIES	COVER	HEIGHT	COUNT	COMMENTS		
G	1	N	1	BOER4	1	12	7			
				BOER4	0.5	12	1			
				BOER4	0.25	10	3			
				LATR2	9	24	1	grazed		
				LATR2	5	18	4			
			2	SPCR	4	12	1			
/				SPCR	1	12	3			

- 20 minutes, in groups of 2-3 people

1. Split tables (normalize)
2. Determine data types
3. Determine relations





Exercise Results – What I would do

Location

Site	enum('B','C','G','P')
Web	integer(1)
Plot	enum('N','S','E','W')
Quad	integer
Location_id (PK)	integer

Observation

species_id	integer
Cover	float
Height	float
Count	integer
Comments	text
Location_id (FK)	integer
Observation_id (PK)	integer

Species

Abbreviation	varchar
Scientific Name	varchar
Common Name	varchar
Species_id (PK)	integer

