

6: Relational Data Model

(part three)

information lost in the mapping process



incapable of distinguishing between 1:1 and 1:n



do not map participation constraints



optional/mandatory for attributes not represented



alternate keys not identified

information lost in the mapping process



composite attributes



derived attributes



deletion rules



attribute type and size

information preserving mapping

pg. 278-280

Lx: SCHEME

<u>Att 1</u> (t, s)	Q [Att2] (t, s)	Att3• (t, s)	<u>Att4</u> (t, s)	[Att5 (t, s)	Att6] (t, s)	<u>Att7</u> (t, s)	<i>FKAtt1</i> (t, s)	<i>FKAtt2</i> (t, s)	...	AttZ (t, s)
							min Ly max	min Lz max		
							min D max	min D max		

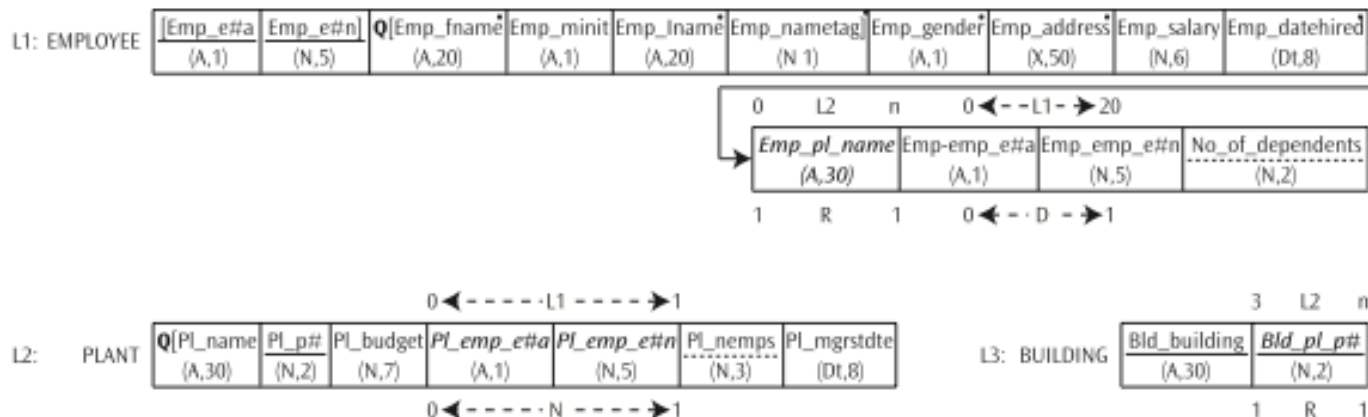
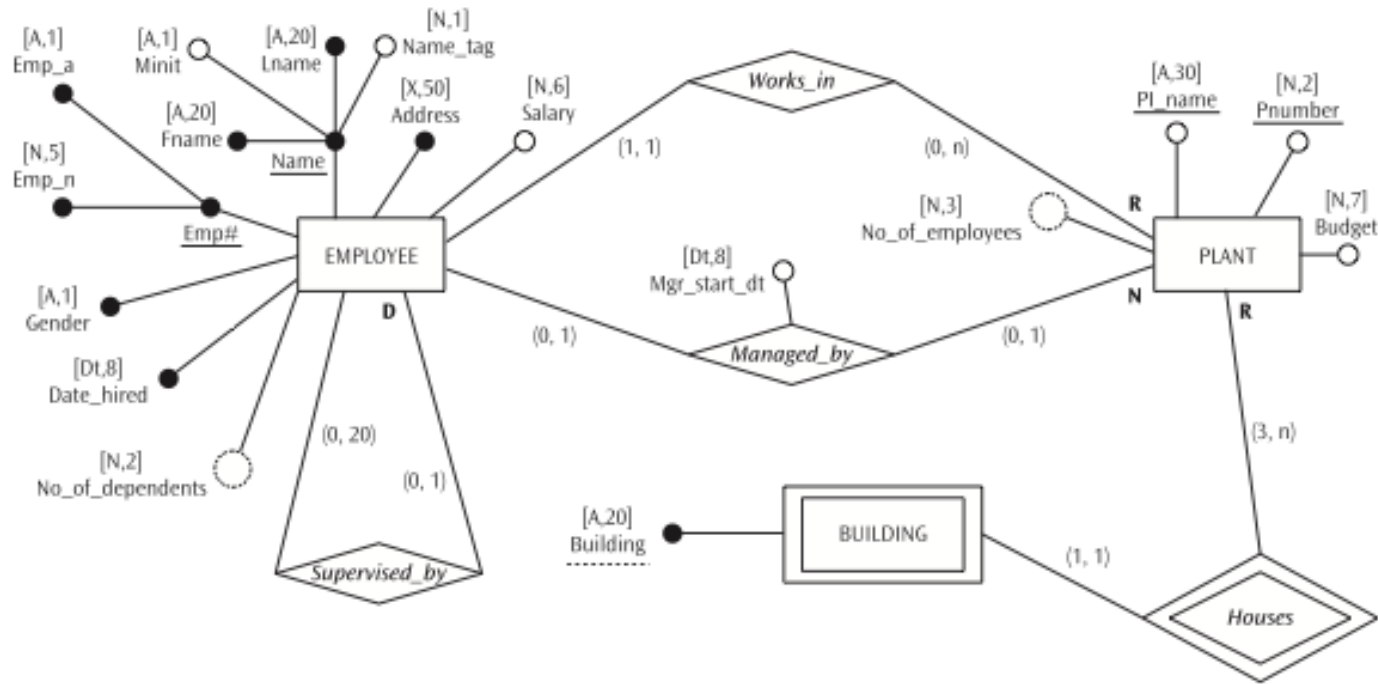
or

Lx: SCHEME

<u>Att 1</u> (t, s)	Q [Att2] (t, s)	Att3• (t, s)	<u>Att4</u> (t, s)	[Att5, Att6] (t, s)	<u>Att7</u> (t, s)	...	<i>FKAtt1</i> (t, s)	<i>FKAtt2</i> , ..., AttZ (t, s)
							min Ly max	min Lz max
							min D max	min D max

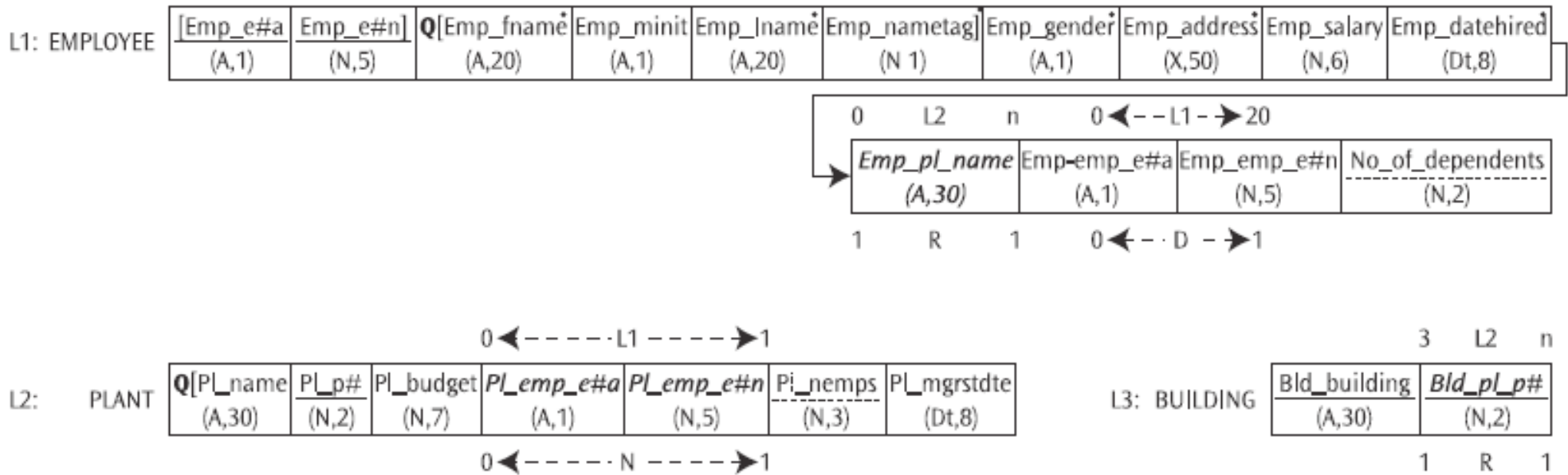
information preserving mapping

pg. 278-280

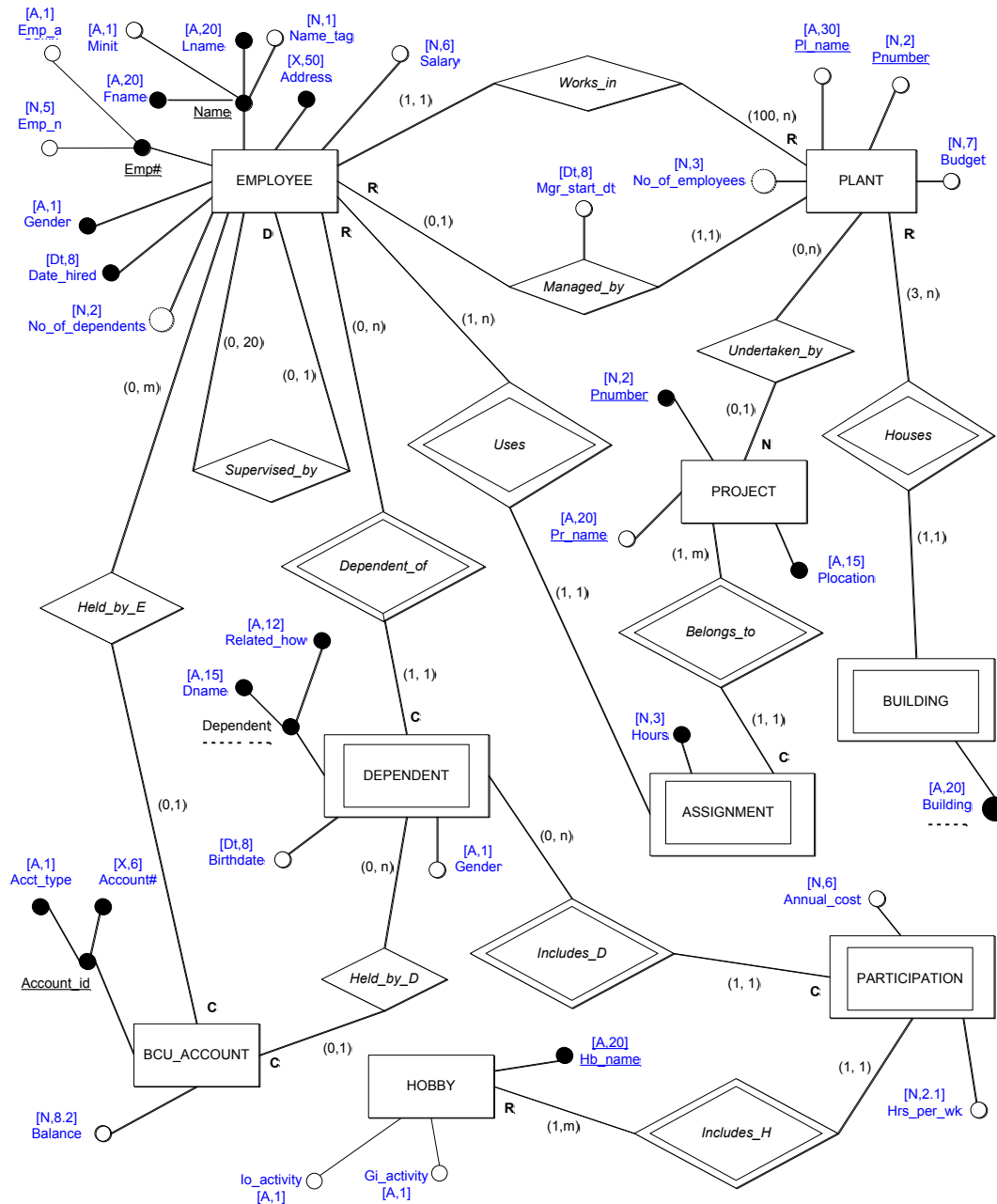


information preserving mapping

pg. 278-280



information preserving mapping



information preserving mapping

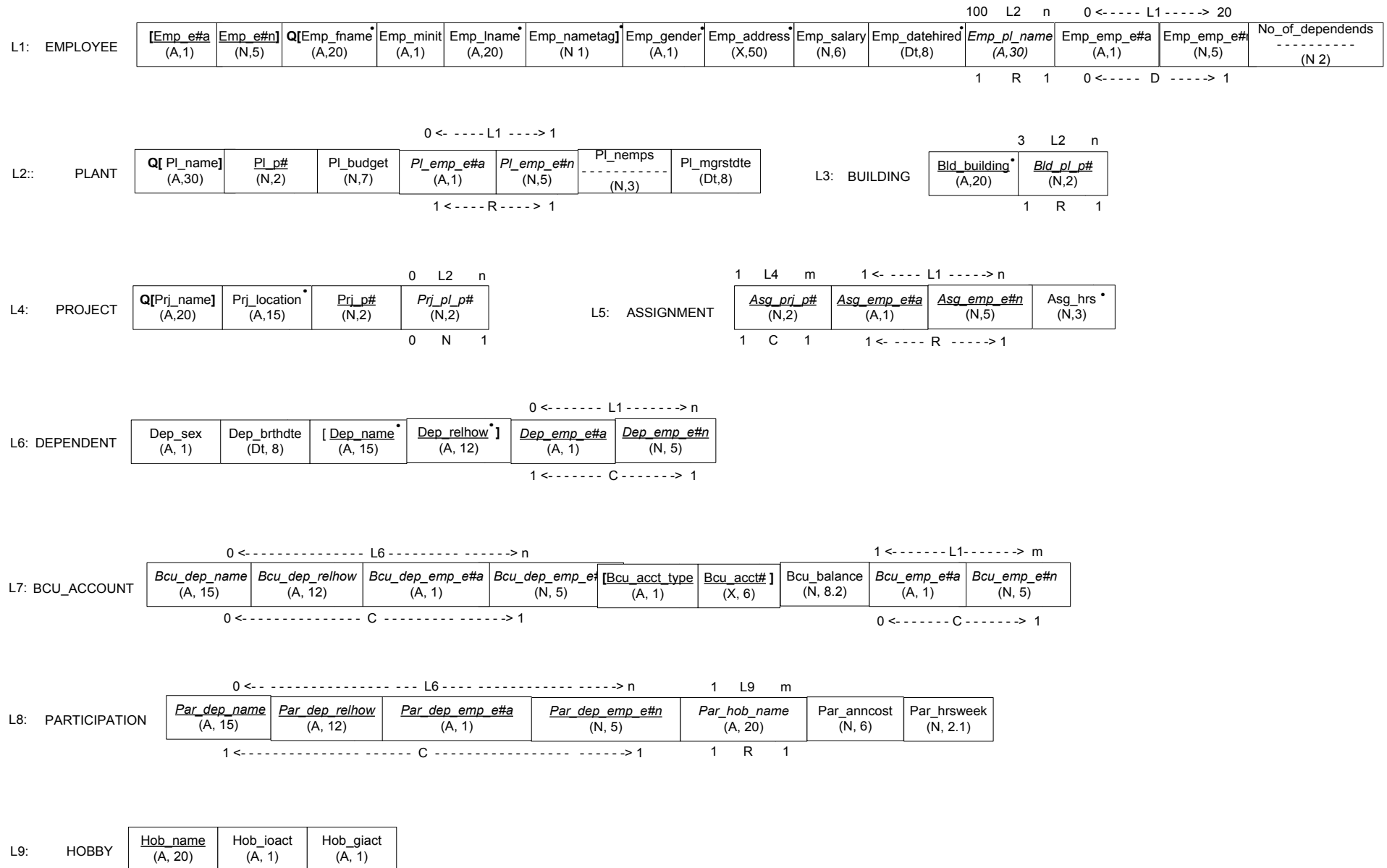


Figure 6.24

Information-preserving logical schema for the Fine-granular Design-Specific ER diagram for Bearcat Incorporated in Figure 6.20