Attributes in Raster and in Vector Data Models
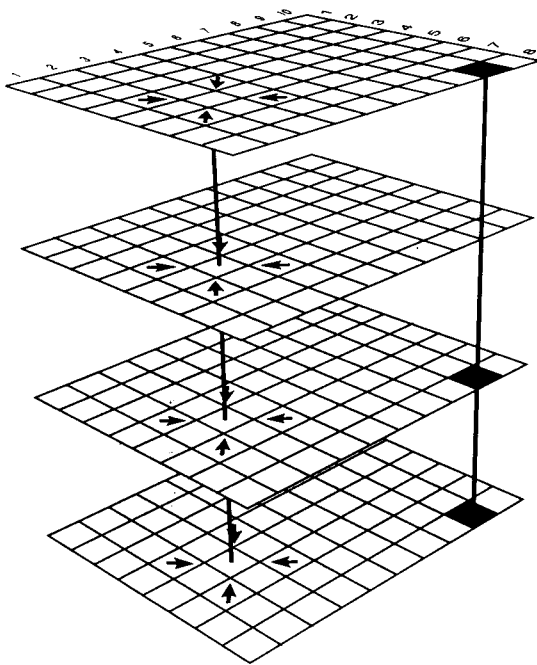

Fig. 22.1 The composite map model of information integration in which both spatial and attribute data are combined in the same layer.

Spatial data

Zone ID	Boundary segment list
.	
.	
A	24, 25, 27
.	

Map

Attribute data

Zone ID	Land use	Soil	Owner
A	Pasture	Loam	F. Giles
.	.	.	.
.	.	.	.

Boundary segment no.	Left zone ID	Right zone ID	Coordinates
.	.	.	.
.	.	.	.
24	A	F	x_1, y_1 x_2, y_2 ...x_n, y_n
.	.	.	.

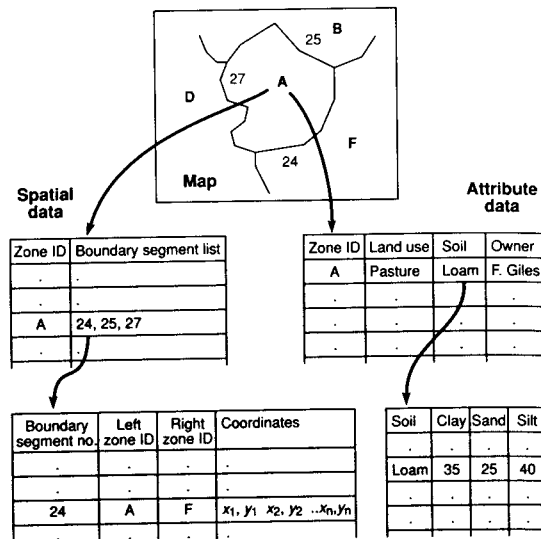| Soil	Clay	Sand	Silt
.	.	.	.
Loam	35	25	40
.	.	.	.
.	.	.	.

Fig. 22.2 The geo-relational model of information integration in which spatial and attribute data are stored separately.
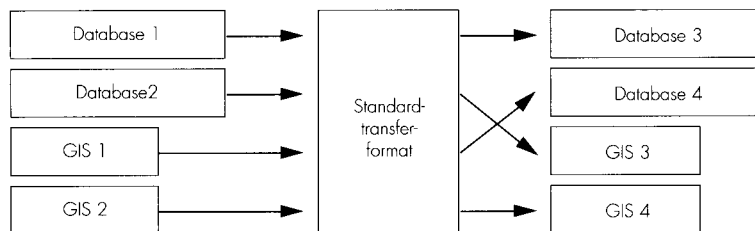
GIS and Data Exchange

Fig. 6.30 – By means of standardised exchange formats, digital data can be exchanged between different GIS and also between GIS and different data bases.