





						Vision Value
Data En	itities,	Attri	bute	s, an	d Ke	ys
						_
FIGURE 5 02	Employee #	Last name	First name	Hire date	Dept. number	
Keys and Attributes The key field is the employee num- ber. The attributes include last name, first name, hire date, and department number.	005-10-6321	Johns	Francine	10-07-1997	257	
	549-77-1001	Buckley	Bill	02-17-1979	632	Entities (records)
	098-40-1370	Fiske	Steven	01-05-1985	598	
	Key field		·		1	-) -
			Attributes (fields)			













































Compa	rison of OL	.TP and
Data	a Warehou	sing
Characteristic	OLTP Database	Data Warehousing
Purpose	Support transaction processing	Support decision support
Source of state	Business transactions	Multiple fries, databases—data internal and external to the firm
Onto access allowed users	Read and write	Read only
Primary data access mode	Simple database update and query	Simple and complex datatuse queries with increating use of data mixing to recognice patterns in the data
Primary database model employed	Relational	Relational
Level of detail	Detailed transactions	Often summarized data
Availability of historical data	Very limited-typically a few weeks or months	Multiple years
Updale process	On-line, ongoing process as trans- actions are captured	Periodic process, once per week or once per month
Ease of update	Routine and easy	Complex, must combine data from many sources: data must go through a data cleanup process
Oata integrity issues	Each individual transaction must be closely edited	Major effort to "stean" and inte- grate data from multiple sources







