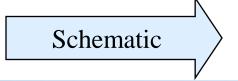
Management Information Systems



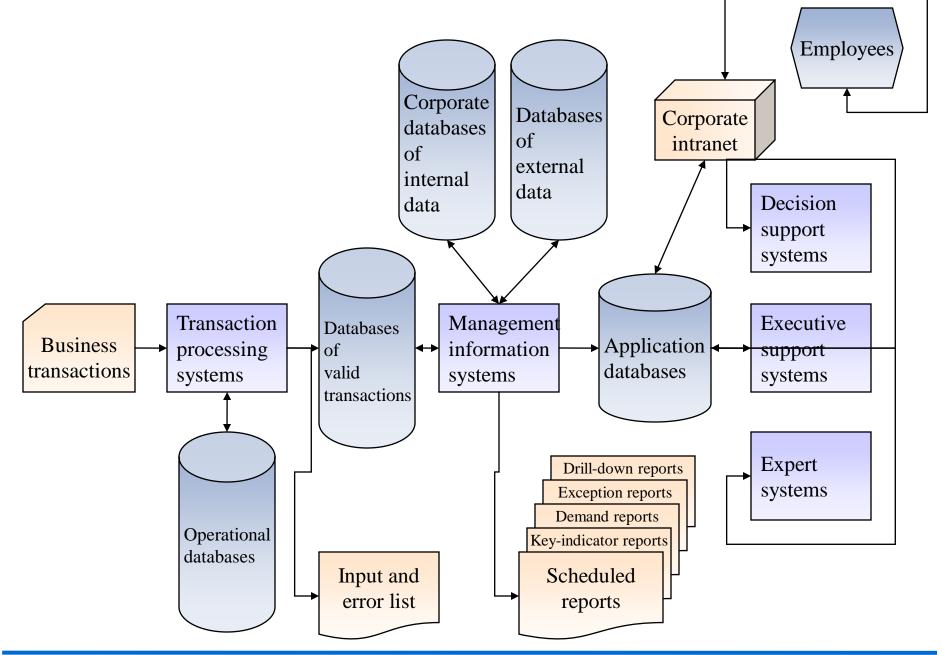
Management Information Systems (MIS)

- ☐ Management information system (MIS)
 - An MIS provides managers with information and support for effective decision making, and provides feedback on daily operations
 - Output, or reports, are usually generated through accumulation of transaction processing data
 - Each MIS is an integrated collection of subsystems, which are typically organized along functional lines within an organization

Sources of Management Information







Outputs of a Management Information System

- ☐ Scheduled reports
 - Produced periodically, or on a schedule (daily, weekly, monthly)
- ☐ Key-indicator report
 - Summarizes the previous day's critical activities
 - Typically available at the beginning of each day
- ☐ Demand report
 - Gives certain information at a manager's request
- ☐ Exception report
 - Automatically produced when a situation is unusual or requires management action



Scheduled Report Example

Daily Sales Detail Report						
					Prepared: 08/10/xx	
Order #	Customer ID	Sales Rep ID	Ship Date	Quantity	Item #	Amount
P12453	C89321	CAR	08/12/96	144	P1234	\$3,214
P12453	C89321	CAR	08/12/96	288	P3214	\$5,660
P12453	C03214	GWA	08/13/96	12	P4902	\$1,224
P12455	C52313	SAK	08/12/96	24	P4012	\$2,448
P12456	C34123	JMW	08J/13/96	144	P3214	\$720

Key Indicator Report Example

Daily Sales Key Indicator Report				
	This Month	Last Month	Last Year	
Total Orders Month to Date	\$1,808	\$1,694	\$1,014	
Forecasted Sales for the Month	\$2,406	\$2,224	\$2,608	



Demand Report Example

Daily Sales by Sales Rep Summary Report				
	Prepared: 08/10/xx			
Sales Rep ID	Amount			
CAR	\$42,345			
GWA	\$38,950			
SAK	\$22,100			
JWN	\$12,350			



Exception Report Example

Daily Sales Exception Report – ORDERS OVER \$10,000

Prepared: 08/10/xx

Order #	Customer ID	Sales Rep ID	Ship Date	Quantity	Item #	Amount
P12453	C89321	CAR	08/12/96	144	P1234	\$13,214
P12453	C89321	CAR	08/12/96	288	P3214	\$15,660
P12453	C03214	GWA	08/13/96	12	P4902	\$11,224



Outputs of a Management Information System

Drill Down Reports

Provide detailed data about a situation.

Earnings by Quarter (Millions)					
	Actual	Forecast	Variance		
2 ND Qtr 1999	\$12.6	\$11.8	6.8%		
1 st Qtr 1999	\$10.8	\$10.7	0.9%		
4 th Qtr 1998	\$14.3	\$14.5	-1.4%		
3 rd Qtr 1998	\$12.8	\$13.3	-3.0%		

Etc. See Figure 9.2



Characteristics of a Management Information System

- ☐ Provides reports with fixed and standard formats
 - Hard-copy and soft-copy reports
- ☐ Uses internal data stored in the computer system
- ☐ End users can develop custom reports
- ☐ Requires formal requests from users



Management Information Systems for Competitive Advantage

- ☐ Provides support to managers as they work to achieve corporate goals
- ☐ Enables managers to compare results to established company goals and identify problem areas and opportunities for improvement

MIS and Web Technology

- ☐ Data may be made available from management information systems on a company's intranet
- ☐ Employees can use browsers and their PC to gain access to the data



Functional Aspects

☐ MIS is an integrated collection of functional information systems, each supporting particular functional areas.

Schematic



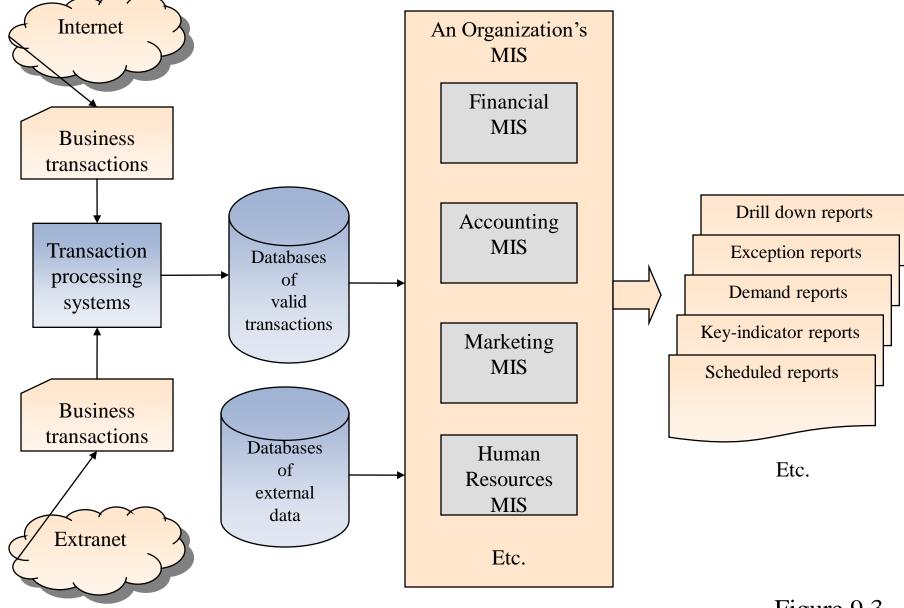


Figure 9.3

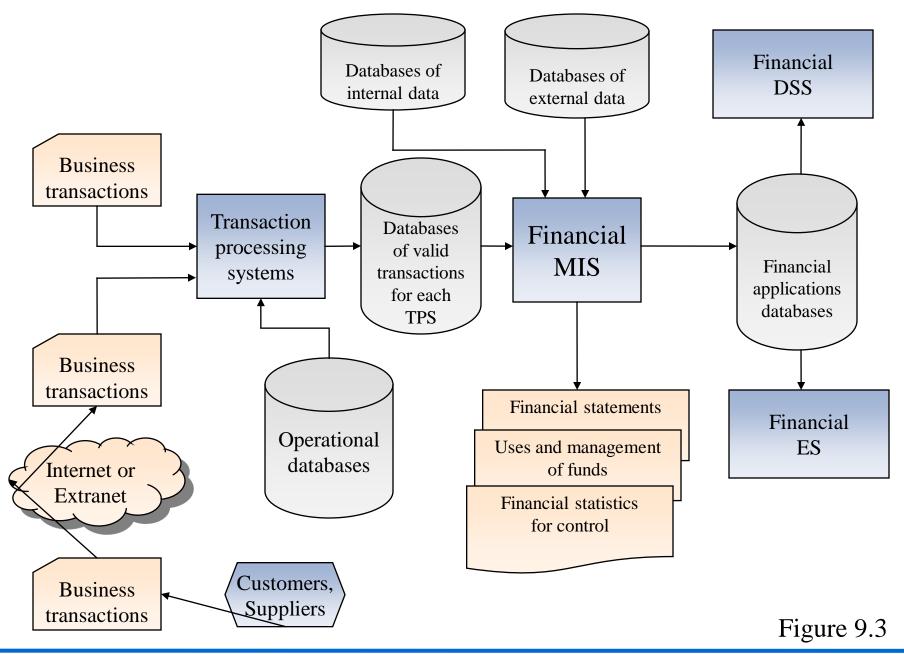


Financial MIS

☐ Provides financial information to all financial managers within an organization.

Schematic





Inputs to the Financial Information System

- ☐ Strategic plan or corporate policies
 - Contains major financial objectives and often projects financial needs.
- ☐ Transaction processing system (TPS)
 - Important financial information collected from almost every TPS payroll, inventory control, order processing, accounts payable, accounts receivable, general ledger.
 - External sources
 - Annual reports and financial statements of competitors and general news items.



Financial MIS Subsystems and Outputs

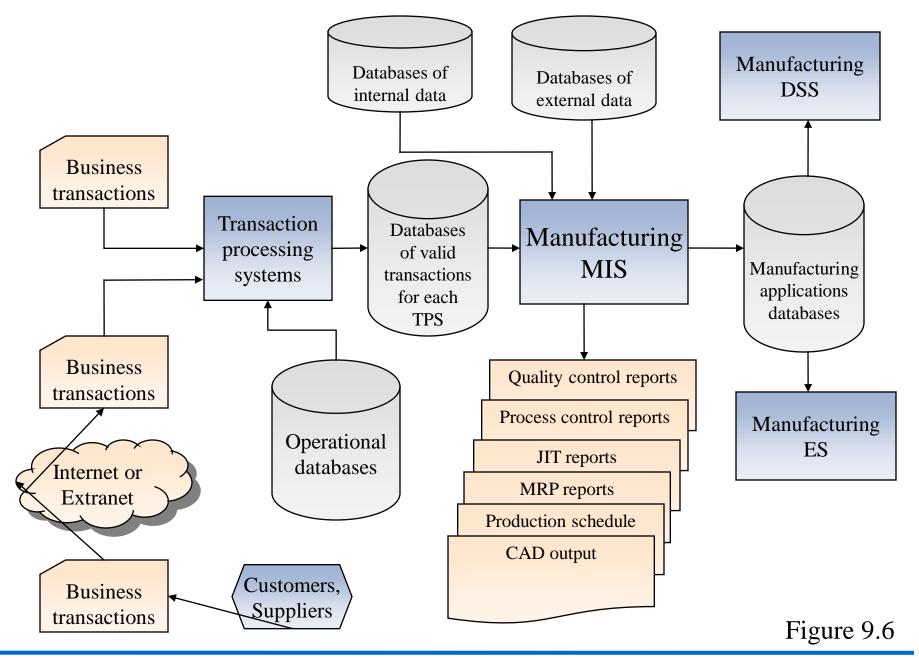
- ☐ Financial subsystems
 - Profit/loss and cost systems
 - Auditing
 - Internal auditing
 - External auditing
 - Uses and management of funds



Manufacturing MIS

Schematic





Inputs to the Manufacturing MIS

- ☐ Strategic plan or corporate policies.
- ☐ The TPS:
 - Order processing
 - Inventory data
 - Receiving and inspecting data
 - Personnel data
 - Production process
- ☐ External sources



Manufacturing MIS Subsystems and Outputs

- Design and engineering
- ☐ Master production scheduling
- ☐ Inventory control
- ☐ Manufacturing resource planning
- ☐ Just-in-time inventory and manufacturing
- Process control
- ☐ Computer-integrated manufacturing (CIM)
- Quality control and testing

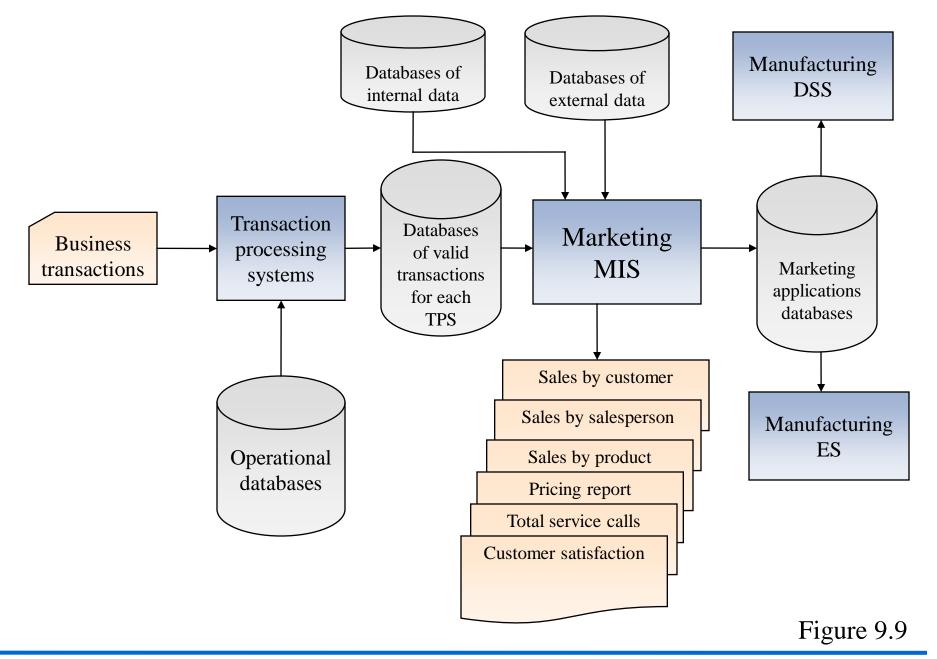


Marketing MIS

☐ Supports managerial activities in product development, distribution, pricing decisions, and promotional effectiveness

Schematic





Inputs to Marketing MIS

- ☐ Strategic plan and corporate policies
- ☐ The TPS
- ☐ External sources:
 - The competition
 - The market



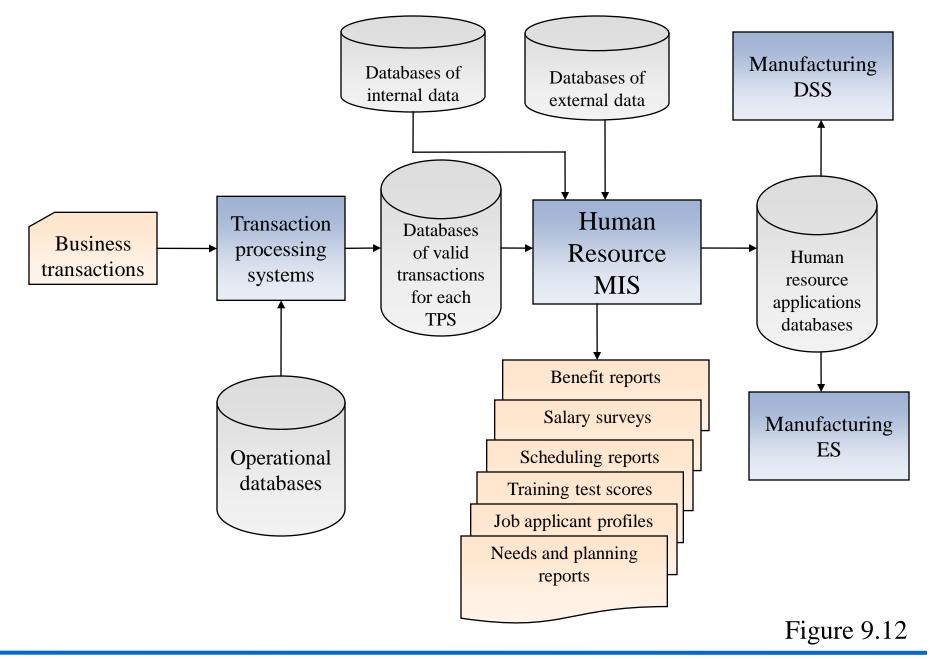
Marketing MIS Subsystems and Outputs

- ☐ Marketing research
- ☐ Product development
- ☐ Promotion and advertising
- ☐ Product pricing



Human Resource MIS

☐ Concerned with all of the activities related to employees and potential employees of the organization



Inputs to the Human Resource MIS

- ☐ Strategic plan or corporate policies
- ☐ The TPS:
 - Payroll data
 - Order processing data
 - Personnel data
- ☐ External sources



Human Resource MIS Subsystems and Outputs

- ☐ Human resource planning
- ☐ Personnel selection and recruiting
- ☐ Training and skills inventory
- ☐ Scheduling and job placement
- ☐ Wage and salary administration



Other MISs

- ☐ Accounting MISs
 - Provides aggregated information on accounts payable, accounts receivable, payroll, and other applications.
- ☐ Geographic information systems (GISs)
 - Enables managers to pair pre-drawn maps or map outlines with tabular data to describe aspects of a particular geographic region.



End of Chapter 9

Chapter 10

