Given the structure and contents of the Ch07_ConstructCo database shown in Figure P7.1, use SQL commands to answer Problems 1–25.

1. Write the SQL code that will create the table structure for a table named EMP_1. This table is a subset of the EMPLOYEE table. The basic EMP_1 table structure is summarized in the following table. (Note that the JOB CODE is the FK to JOB.)

ATTRIBUTE (FIELD) NAME	DATA DECLARATION
EMP_NUM	CHAR(3)
EMP_LNAME	VARCHAR(15)
emp_fname	VARCHAR(15)
emp_initial	CHAR(1)
emp_hiredate	DATE
JOB_CODE	CHAR(3)

2. Having created the table structure in Problem 1, write the SQL code to enter the first two rows for the table shown in Figure P7.2.

FIGURE The o	The contents of the EMP_1 table							
	EMP_NUM	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_HIREDATE	JOB_CODE		
	101	News	John	G	08-Nov-00	502	•	
	102	Senior	David	Н	12-Jul-89	501		
	103	Arbough	June	E	01-Dec-96	500		
	104	Ramoras	Anne	К	15-Nov-87	501		
	105	Johnson	Alice	K	01-Feb-93	502		
	106	Smithfield	√Villiam		22-Jun-04	500		
	107	Alonzo	Maria	D	10-Oct-93	500		
	108	Washington	Ralph	В	22-Aug-91	501		
	109	Smith	Larry	W	18-Jul-97	501		

- 3. Assuming that the data shown in the EMP_1 table have been entered, write the SQL code that will list all attributes for a job code of 502.
- 4. Write the SQL code that will save the changes made to the EMP_1 table.
- 5. Write the SQL code to change the job code to 501 for the person whose employee number (EMP_NUM) is 107. After you have completed the task, examine the results and then reset the job code to its original value.
- 6. Write the SQL code to delete the row for William Smithfield, who was hired on June 22, 2004, and whose job code is 500. (*Hint:* Use logical operators to include all of the information given in this problem.)
- 7. Write the SQL code that will restore the data to its original status; that is, the table should contain the data that existed before you made the changes in Problems 5 and 6.
- 8. Write the SQL code to create a copy of EMP_1, naming the copy EMP_2. Then write the SQL code that will add the attributes EMP_PCT and PROJ_NUM to the structure. The EMP_PCT is the bonus percentage to be paid to each employee. The new attribute characteristics are:

EMP_PCT NUMBER(4,2) PROJ_NUM CHAR(3)

(Note: If your SQL implementation allows it, you may use DECIMAL(4,2) rather than NUMBER(4,2).)