

No.: _____

Name: _____

**Computer Science
Homework for Chapter 9**

Due: 2010/05/26

7. In the following table, connect the term to each phrase that gives the best description of the term. (40%)

____ 1. Given the relation X below

X:	<u>A</u>	<u>B</u>	<u>C</u>
	2	5	7
	3	3	3
	4	4	2
	5	2	8

what value will be retrieved by the following query?

```
TEMP ← SELECT from X where B = C  
RESULT ← PROJECT B from TEMP
```

- A. 2 B. 3 C. 4 D. 5

____ 2. Which of the following features within a DBMS is not provided to maintain database integrity?

- A. Concurrent transaction processing B. Log
C. Locking protocol D. Commit points

____ 3. Which of the following data mining techniques would be applied when trying to identify any underlying heterogeneity within housing patterns in a community?

- A. Class description B. Class discrimination
C. Cluster analysis D. Association analysis

____ 4. Which of the following file structures is associated with the problem of clustering?

- A. Sequential B. Indexed C. Hash

____ 5. Which of the following describes only the portion of a database available to a particular user?

- A. Database model B. Schema C. Subschema D. DBMS

____ 6. Which of the following is not a potential problem caused by multiple transactions manipulating a database at the same time?

- A. Lost update problem B. Clustering
C. Deadlock D. Incorrect summary problem

Term		Descriptive Phrase
Schema	_____	A. A conceptual organization of data within databases
Index	_____	B. A "road map" of a particular database's design
hash file	_____	C. Performs database operations requested by application software
DBMS	_____	D. A popular language that implements relational database operations
clustering	_____	E. A structural unit (with rows and columns) in a popular database model
locking protocol	_____	F. Select, project, and join
relational operations	_____	G. To "unwind" a transaction
data mining	_____	H. The time at which a DBMS guarantees that a transaction's actions will be reflected in a database
key field	_____	I. A system to guard against database errors due to performing transactions concurrently
data warehouse	_____	J. The process of extracted hidden information
sequential file	_____	K. The information system to which data mining techniques are applied
commit point	_____	L. A storage structure that provides efficient access to randomly chosen items
relation	_____	M. A major problem when manipulating hash files
roll back	_____	N. A storage structure that associates a specific order with its contents
SQL	_____	O. A means of locating a particular record within a file
database model	_____	P. An item used to identify records uniquely