

# CPTR 319 Chapters 7, 9 & 11 Review

## Chapter 7

Covers: DDL (CREATE, ALTER, DROP), Views, Triggers and Stored procedures.

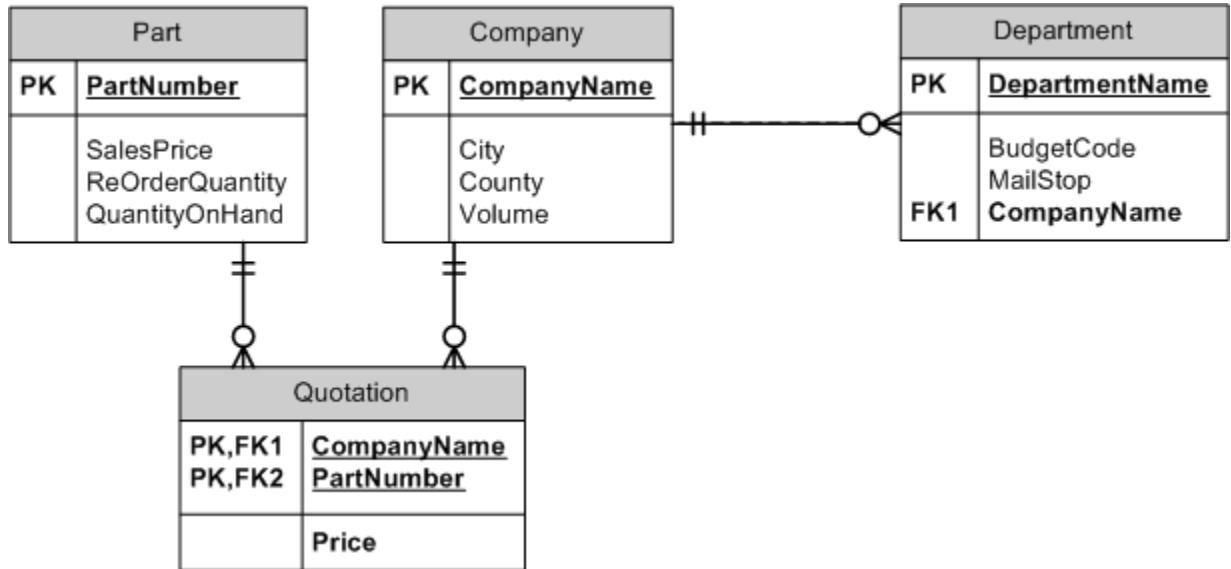


Figure 1: All lines are drawn as identifying. You should decide if they are or are not identifying.

- (6) Classify the relationships in the following tables

RELATIONSHIP			Cardinality	
Parent	Child	Type(ID/NON-ID)	Max	Min
Part	Quotation			
Company	Quotation			
Company	Department			

- (12) Use Figure 6-27 from the book (actually your memory) and Figure 1 to help you determine **all** triggers and referential integrity constraints necessary for the Part-Quotation relationship and the Company-Quotation relationship.

Part-Quotation	Action on Parent	Action on Child
Insert		
Modify Key or Foreign Key		
Delete		

<b>Company-Quotation</b>	<b>Action on Parent</b>	<b>Action on Child</b>
Insert		
Modify Key or Foreign Key		
Delete		

3. (10) Write DDL statements to create the Part and Quotation Tables.

4. (5) Alter the PART table from above to add a Description field that is free-form text.

5. (5) Create a view that shows a list of parts sold by all companies along with their sale price and quoted price where the quoted price is higher than the sale price. Call it the Shyster view.



## Chapter 9 & 11

13. (1) What is the goal of *concurrency control*?
14. (2) Differentiate implicit and explicit locks?
15. (5) What are the different levels of lock granularity?
16. (2) Differentiate optimistic vs. pessimistic locking.
17. (3) List the three keywords used to start, undo or finish a transaction.
18. (4) What does ACID stand for?
19. (1) How should you use locking hints? *Skip this one, you shouldn't be using them.*

The following will be matching. You should be familiar enough with the definitions to find a match. (1 each)

- a) Atomic
- b) Durable
- c) Statement-level consistency
- d) Transaction-level consistency
- e) Consistency
- f) Isolation levels
- g) Read uncommitted
- h) Read committed
- i) Repeatable read
- j) Serializable
- k) Cursor
- l) Cursor types
- m) Forward only
- n) Static
- o) Keyset
- p) Dynamic