1. Which tables and fields would you access to determine which book titles have been

purchased by a customer and when the order shipped?

**ORDERS, ORDERITEMS and BOOKS tables**

2. How would you determine which orders have not yet been shipped to the customer?

**Check the ORDERS table and see if the Shipdate has been updated**

3. If management needed to determine which book category generated the most sales in April

2009, which tables and fields would they consult to derive this information?

**View the Orderdate field from ORDERS table from April 2009, then check how many records there are in ORDERITEMS table based on the Category field from BOOKS.**

4. Explain how you would determine how much profit was generated from orders placed in

April 2009.

**View the Orderdate field from ORDERS table from April 2009, then with the matching Order# from the ORDERS table check the Paideach field from the ORDERITEMS field.**

5. If a customer inquired about a book written in 2003 by an author named Thompson, which

access path (tables and fields) would you need to follow to find the list of books meeting

the customer’s request?

**AUTHOR🡪Thompson🡪BOOKAUTHOR🡪ISBN🡪BOOKS🡪Pubdate**

In assignments 6 to 10, create a simple E-R model depicting entities and relationship lines

for each data scenario.

6. A college needs to track placement test scores for incoming students. Each student can

take a variety of tests, including English and math. Some students are required to take

placement tests because of previous coursework.

Students

Tests

7. Every employee in a company is assigned to one department. Every department can

contain many employees.

Department

Employees

8. A movie megaplex needs to collect movie attendance data. The company maintains 16

theaters in a single location. Each movie offered can be shown in one or more of the

available theaters and is typically scheduled for three to six showings in a day. The movies

are rotated through the theaters to ensure that each is shown in one of the stadium-seating

theaters at least once.

Theaters

Movies

Showings

9. An online retailer of coffee beans maintains a long list of unique coffee flavors. The

company purchases beans from a number of suppliers; however, each specific flavor of

coffee is purchased from only a single supplier. Many of the customers are repeat

purchasers and typically order at least five flavors of beans in each order.

Suppliers

Customers

Orders

Order Items

Beans

10. Data for an information technology conference needs to be collected. The conference has a

variety of sessions scheduled over a two-day period. All attendees must register for the

sessions they plan to attend. Some speakers are presenting only one session, whereas

others are handling multiple sessions. Each session has only one speaker.

Sessions

Registrations

Attendees

Speakers