Exercises

For the following exercises, use the Hotel schema defined at the start of the Exercises at the end of Chapter 4.

5.8 Describe the relations that would be produced by the following relational algebra operations:

(a) $\Pi_{hotelNo}(\sigma_{price > 50}(Room))$

(b) $\sigma_{Hotel.hotelNo = Room.hotelNo}(Hotel \times Room)$

(c) $\Pi_{hotelName}(Hotel \bowtie_{Hotel.hotelNo = Room.hotelNo}(\sigma_{price > 50}(Room)))$

(d) $Guest \bowtie (\sigma_{dateTo \geq \text{1-Jan-2007}}(Booking))$

(e) $Hotel \triangleright_{Hotel.hotelNo = Room.hotelNo}(\sigma_{price > 50}(Room))$

(f) $\Pi_{guestName, hotelNo}(Booking \bowtie_{Booking.guestNo = Guest.guestNo} Guest) \div \Pi_{hotelNo}(\sigma_{city = London}(Hotel))$

5.9 Provide the equivalent tuple relational calculus and domain relational calculus expressions for each of the relational algebra queries given in Exercise 5.8.

5.10 Describe the relations that would be produced by the following tuple relational calculus expressions:

(a) {H.hotelName | Hotel(H) ∧ H.city = 'London'}

(b) {H.hotelName | Hotel(H) ∧ (∃R) (Room(R) ∧ H.hotelNo = R.hotelNo ∧ R.price > 50)}

(c) {H.hotelName | Hotel(H) ∧ (∃B) (∃G) (Booking(B) ∧ Guest(G) ∧ H.hotelNo = B.hotelNo ∧
B.guestNo = G.guestNo ∧ G.guestName = 'John Smith')}

(d) {H.hotelName, G.guestName, B1.dateFrom, B2.dateFrom | Hotel(H) ∧ Guest(G) ∧ Booking(B1) ∧
Booking(B2) ∧ H.hotelNo = B1.hotelNo ∧ G.guestNo = B1.guestNo ∧ B2.hotelNo = B1.hotelNo ∧
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Table of Contents Relational Algebra Questions With Solutions

1. Understanding the eBook Relational Algebra Questions With Solutions
   - The Rise of Digital Reading Relational Algebra Questions With Solutions
   - Advantages of eBooks Over Traditional Books
2. Identifying Relational Algebra Questions With Solutions
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Relational Algebra Questions With Solutions
   - User-Friendly Interface
4. Exploring eBook Recommendations from Relational Algebra Questions With Solutions
   - Personalized Recommendations
   - Relational Algebra Questions With Solutions User Reviews and Ratings
   - Relational Algebra Questions With Solutions and Bestseller Lists
5. Accessing Relational Algebra Questions With Solutions Free and Paid eBooks
   - Relational Algebra Questions With Solutions Public Domain eBooks
   - Relational Algebra Questions With Solutions eBook Subscription Services
   - Relational Algebra Questions With Solutions Budget-Friendly Options

6. Navigating Relational Algebra Questions With Solutions eBook Formats
    - ePub, PDF, MOBI, and More
    - Relational Algebra Questions With Solutions Compatibility with Devices
    - Relational Algebra Questions With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Relational Algebra Questions With Solutions
    - Highlighting and Note-Taking Relational Algebra Questions With Solutions
    - Interactive Elements Relational Algebra Questions With Solutions
8. Staying Engaged with Relational Algebra Questions With Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Relational Algebra Questions With Solutions
9. Balancing eBooks and Physical Books Relational Algebra Questions With Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Relational Algebra Questions With Solutions
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Relational Algebra Questions With Solutions
    - Setting Reading Goals Relational Algebra Questions With Solutions
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Relational Algebra Questions With Solutions
    - Fact-Checking eBook Content of Relational Algebra Questions With Solutions
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements

  - Interactive and Gamified eBooks

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