

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

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

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

(d) $\text{Guest} \bowtie_{\text{dateFrom} \geq \text{'1-Jan-2007'}}(\text{Booking})$

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

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

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) $\{H.\text{hotelName} \mid \text{Hotel}(H) \wedge H.\text{city} = \text{'London'}\}$

(b) $\{H.\text{hotelName} \mid \text{Hotel}(H) \wedge (\exists R) (\text{Room}(R) \wedge H.\text{hotelNo} = R.\text{hotelNo} \wedge R.\text{price} > 50)\}$

(c) $\{H.\text{hotelName} \mid \text{Hotel}(H) \wedge (\exists B) (\exists G) (\text{Booking}(B) \wedge \text{Guest}(G) \wedge H.\text{hotelNo} = B.\text{hotelNo} \wedge B.\text{guestNo} = G.\text{guestNo} \wedge G.\text{guestName} = \text{'John Smith'})\}$

(d) $\{H.\text{hotelName}, G.\text{guestName}, B1.\text{dateFrom}, B2.\text{dateFrom} \mid \text{Hotel}(H) \wedge \text{Guest}(G) \wedge \text{Booking}(B1) \wedge \text{Booking}(B2) \wedge H.\text{hotelNo} = B1.\text{hotelNo} \wedge G.\text{guestNo} = B1.\text{guestNo} \wedge B2.\text{hotelNo} = B1.\text{hotelNo} \wedge B2.\text{guestNo} = B1.\text{guestNo} \wedge B2.\text{dateFrom} \neq B1.\text{dateFrom}\}$

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Database Management and Design Gary William Hansen, James V. Hansen, 1996 An updated introductory management book which discusses object oriented data modeling and client server platforms

KEY FEATURES It explores management and design within the context of the database development life cycle

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Knowledge Discovery in Inductive Databases, 2005

Database Systems Thomas M. Connolly, Carolyn E. Begg, 1999 A strong foundation in good design practice this second edition offers information in an accessible step by step fashion This

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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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