

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

(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

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Knowledge Discovery in Inductive Databases, 2005

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methodology is then applied to a working example so that the reader may learn to design and build applications using a leading commercial database system

Oracle Certified DBA Exam Sima Yazdani, Shirley Wong, Tao-Sang Tong, 2001 This book is a straightforward no fuss introduction to Calculus Little formal reliance is made on the reader's previous mathematical background and great care has been taken to make the book as self contained as possible The topics are presented in a logical sequence with a continuous flow of ideas Definitions are given as succinctly as possible Examples follow after definitions and theorems and the more difficult proofs of these are relegated to the end of the chapter so as to allow easy reading

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Principles of Database Systems with Internet and Java Applications Greg Riccardi, 2001 This book is a concise and modern treatment of introductory database topics that enlists Java and the Internet to present core DBMS theory from an applications perspective It incorporates programming and database applications when presenting the core theory behind DBMS and their applications Information management is the central theme of this book It motivates the development of data models and the representation of information in relational database systems Readers learn how to define database content with Entity Relationship models and how to represent that content in relational systems They become thoroughly familiar with the SQL language and learn exactly what is required to build quality information rich applications This book is appropriate for readers interested in learning about database systems while applying the theory using Java and the Internet

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