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

(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 ∧ B2.guestNo = B1.guestNo ∧ B2.dateFrom ≠ B1.dateFrom}

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