

CS 442 HW3

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I pledge my Honor that I have abided by the Stevens Honor System.

Problem 1

$$\pi_{gName}((Guest) \bowtie (\sigma_{hCity="NYC"}(Hotel) \bowtie \sigma_{fromDate \text{ LIKE } '%Jan\%'}(Booking)))$$

Problem 2

$$\pi_{gName}(((\sigma_{noOfDays>10}(Booking)) \bowtie \sigma_{type="suite"}(Room) \bowtie \sigma_{hCity="NYC"}(Hotel)) \bowtie Guest))$$

Problem 3

$$\pi_{gName}(((Booking) - \sigma_{noOfDays \leq 5}(Booking)) \bowtie (Guest))$$

Problem 4

$$(\pi_{hName}(\sigma_{hCity="NYC"}(Hotel))) - (\pi_{hName}(\sigma_{hCity="NYC"}(Hotel) \bowtie (\sigma_{year="2020"}(Booking))))$$

Problem 5

$$\pi_{gName}((Guest) \bowtie (Booking) \bowtie (\sigma_{type="Suite"}(Room) / \pi_{hId}(\sigma_{hCity="NYC"}(Hotel))))$$