

Max Shi

I pledge my honor that I have abided by the Honor Code

1. $\rho(\text{JanBookings}, \sigma_{\text{year}="2020"} \wedge \text{fromDate} \geq \text{"Jan 01"} \wedge \text{toDate} = \text{"Jan 31"} (\text{Booking}))$
 $\rho(\text{NYCHotels}, \sigma_{\text{city}="NYC"} (\text{Hotel}))$
 $\pi_{\text{gName}} ((\text{Guest} \bowtie \text{JanBookings}) \bowtie \text{NYCHotels})$

2. $\rho(\text{SuiteBookings}, (\sigma_{\text{type}="suite"} (\text{Room})) \bowtie (\sigma_{\text{no of Days} > 10} (\text{Booking})))$
 $\pi_{\text{gName}} (\text{Guest} \bowtie \sigma_{\text{city}="NYC"} (\text{Hotel} \bowtie \pi_{\text{all, gId}} (\text{SuiteBookings})))$

3. $\rho(\text{LongBookings}, \pi_{\text{gId}} (\sigma_{\text{no of Days} > 5} (\text{Booking})))$
 $\pi_{\text{gName}} (\text{Guest} - (\text{Guest} \bowtie \text{LongBookings}))$

4. $\rho(\text{2020Bookings}, \pi_{\text{hotel}} (\sigma_{\text{year}="2020"} (\text{Booking})))$
 $\pi_{\text{hName}} (\text{Hotel} - (\text{Hotel} \bowtie \text{2020Bookings}))$

5. ~~$\rho(\text{AllNYCSuites})$~~
 $\rho(\text{AllNYCSuites}, \pi_{\text{roomNo}} ((\sigma_{\text{type}="suite"} (\text{Room})) \bowtie (\sigma_{\text{city}="NYC"} (\text{Hotel}))))$
 $\pi_{\text{gName}} ((\text{Guest} \bowtie \text{Booking}) / \text{AllNYCSuites})$