

21001091

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LabSheet 2

3)

a)

$\rho(\text{Hotel, Telephone, Address}) (\pi_{(\text{Name, PhoneNo, Address})} (\sigma_{(\text{Address LIKE "Mirissa"})}(\text{Hotel})))$

b)

$\rho(\text{Hotel, 'Room Type', 'Room Number'}) (\pi_{(\text{Hotel.Name, Room.Type, Room.Room_NO})}$
 $(\sigma_{(\text{RoomType.Price} < 1000 \ \&\& \ (\text{Room.Type} = \text{'double'} \ \text{OR} \ \text{Room.Type} = \text{'family'})})$
 $(\text{Hotel} \bowtie_{(\text{Hote.Hotel_No} = \text{RoomType.Hotel_NO})} \text{RoomType} \bowtie_{(\text{Hote.Hotel_No} = \text{Room.Hotel_NO})}$
 $\text{Room})))$

c)

$\rho(\text{'Total Income'}) \pi_{(\text{SUM(RoomType.Price)})} (\sigma_{(\text{Room.Type} = \text{'A/C double'})}$
 $(\text{RoomType} \bowtie_{(\text{Hote.Hotel_No} = \text{Room.Hotel_NO})} \text{Room}))$

4)

a)

SELECT Name AS Hotel, PhoneNo AS Telephone, Address FROM
Hotel WHERE Address LIKE 'Mirissa';

b)

SELECT Hotel.Name AS Hotel RoomType.`Room Type`,
Room.`Room Number`
FROM Hotel
INNER JOIN RoomType ON Hotel.Hotel_NO =
RoomType.Hotel_NO
INNER JOIN Room ON Hotel.Hotel_NO = Room.Hotel_NO

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WHERE RoomType.Price < 10000 AND (Room.Type = 'double' OR  
Room.Type = 'family')  
ORDER BY RoomType.Price DESC;
```

c)

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SELECT SUM(RoomType.Price) AS 'Total Income' FROM Room  
INNER JOIN RooType ON Room.Hotel_no=RoomType.Hotel_NO  
WHERE Room.Type LIKE 'A/C double';
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