University of Colombo School of Computing

SCS 2209- Database II

Lab Sheet 02

```
3)
a) R1 <- σ Address LIKE %Mirissa% (Hotel)
  R2 <- ρ Hotel, Telephone, Address (π Name, PhoneNo, Address (R1))
b) R1 <- σ price<10000 (RoomType)
  R2 <- σ type='double' OR type='family' (Room)
  R3 <- (R1) ⋈ R1.RoomN0=R2.RoomN0 (R2)
  R4 <- \tau price (R3)
  R5 <- R4 ⋈ Hotel.HotelNo=R4.HotelNo (Hotel)
  R6 <- \pi Name,Type,RoomNo (R5)
  R7 <- ρ Hotel,RoomType,RoomNo (R6)
c) R1 <- σ type='A/C double' (RoomType)
  R2 <- \rho TotalIncome (\pi sum(price) (R1))
4)
a) SELECT name AS 'Hotel', PhoneNo AS 'Telephone', Address FROM Hotel WHERE Address LIKE
'%Mirissa%';
b) SELECT h.Name AS 'Hotel', t.Type AS 'Room Type', r.Room_No AS 'Room No' FROM Hotel h, RoomType
t, Room r WHERE h.Hotel No AND (t.Type="double" OR t.type="family") AND t.price<=10000.00;
c) SELECT SUM(price) AS 'Total Income' FROM RoomType WHERE Type="A/C double";
```