

1.

a) 50иас дээш үнэтэй өрөөтэй hotel-уудын hotelNo-г гаргаж ирнэ

```
SELECT hotelNo
FROM room
WHERE price>50
```

b) join хийгээд Hotel Room хоёрын бүх attribute-г гаргаж ирнэ

```
SELECT Hotel.*, Room.*
FROM Hotel, Room
WHERE Hotel.hotelNo=Room.hotelNo
```

c) Hotel Room хоёрыг join хийгээд 50иас дээш үнэтэй өрөөтэй hotel-уудын hotelNo-г гаргаж ирнэ

```
SELECT hotelName
FROM Hotel
JOIN Room
ON hotelNo=hotelNo AND price>50
```

d) (left join) нөхцөл хангаагүй ч гэсэн join-д гаргаж ирнэ

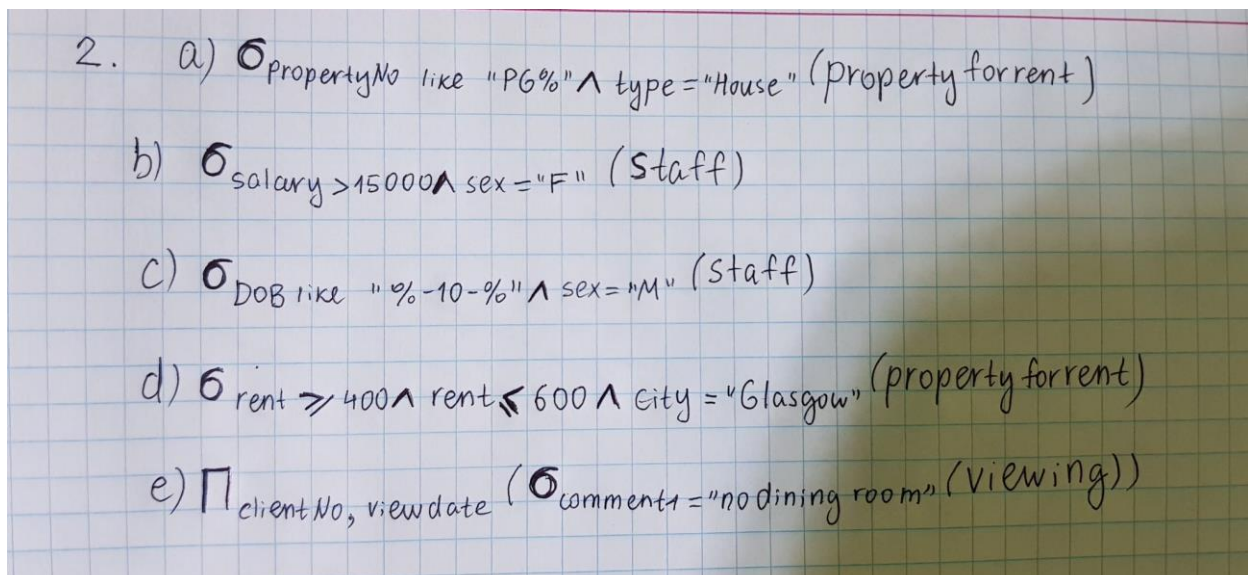
```
SELECT *
FROM Guest
LEFT JOIN Booking
ON dateTo >="1-Jan-2002"
```

e) (semi join) 50иас дээш үнэтэй өрөөтэй hotel-уудын мэдээллийг гаргаж ирнэ

```
SELECT *
FROM Hotel
WHERE hotelNo IN (SELECT hotelNo
                  FROM Room
                  WHERE price>50)
```

f) London-ы hotel-д захиалга өгсөн бүх зочдын нэрийг гаргаж ирнэ

2.



3.

1)

```
SELECT p.propertyNo, p.city, p.rent, p.staffNo, s.fName, s.lName, s.position1
FROM propertyforrent p, staff s
WHERE p.staffNo=s.staffNo
```

2)

```
SELECT s.branchNo, s.staffNo, COUNT(p.propertyNo)
FROM staff s, propertyforrent p
WHERE p.staffNo=s.staffNo
GROUP BY s.staffNo
```

3)

```
SELECT s.branchNo, s.staffNo, COUNT(p.propertyNo), AVG(p.rent), MAX(p.rent), MIN(p.rent)
FROM staff s, propertyforrent p
WHERE p.staffNo=s.staffNo
GROUP BY s.staffNo
```

4)

```
SELECT b.*, p.*
FROM branch b
INNER JOIN propertyforrent p
ON b.city = p.city
```

5)

```
SELECT b.*, p.*
FROM branch b
LEFT JOIN propertyforrent p
ON b.city = p.city
```

```
SELECT b.*, p.*
FROM branch b
RIGHT JOIN propertyforrent p
ON b.city = p.city
```

LEFT JOIN нь зүүн TABLE-н баруунаас ялгаатай хотын нэрсийг гаргаж ирж байна
RIGHT JOIN нь баруун TABLE-н зүүнээс ялгаатай хотын нэрсийг гаргаж ирж байна

6)

```
SELECT city FROM branch
EXCEPT
SELECT city FROM propertyforrent
```

7)

```
SELECT city
FROM branch
intersect
SELECT city
FROM propertyforrent
```

8)

```
SELECT v.clientNo, c.telNo, p.city, p.rent, s.fName
FROM (((viewing v
      INNER JOIN client1 c ON v.clientNo=c.clientNo AND v.comment1="no dining room")
      INNER JOIN propertyforrent p ON p.propertyNo=v.propertyNo)
      INNER JOIN staff s ON p.staffNo=s.staffNo)
```

9)

```
SELECT r.staffNo, s.fName, s.position1, b.city, b.branchNo
FROM (((client1 c
      INNER JOIN registration r ON c.clientNo=r.clientNo AND c.fName="John")
      INNER JOIN staff s ON r.staffNo=s.staffNo)
      INNER JOIN branch b ON s.branchNo=b.branchNo)
```

10)

```
SELECT c.*
FROM (((privateowner pr
      INNER JOIN propertyforrent p ON pr.ownerNo=p.ownerNo AND pr.fName="Tony")
      INNER JOIN viewing v ON p.propertyNo=v.propertyNo)
      INNER JOIN client1 c ON v.clientNo=c.clientNo)
```