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DATABASE LAB

ASSIGNMENT # 03:

Sub-Queries:



```
--1):
select hotelname from hotel where hotelname LIKE '__t%' order by hotelname
desc;
MariaDB [guest_house]> select hotelname from hotel where hotelname LIKE '__t%' order by hotelname desc;
+-----+
| hotelname |
+-----+
| Watergate |
| Latham    |
+-----+
2 rows in set (0.001 sec)
```

```
--12):
select roomno from hotel natural join room where city='London';
MariaDB [guest_house]> select roomno from hotel natural join room where city='London';
+-----+
| roomno |
+-----+
| 1001   |
| 1101   |
| 701    |
| 801    |
| 501    |
| 601    |
| 701    |
+-----+
7 rows in set (0.001 sec)
```

```
--10):
select guestname from hotel natural join booking natural join guest where
hotelname='Watergate';
```

```
MariaDB [guest_house]> select guestname from hotel natural join booking natural join guest where hotelname='Watergate';
+-----+
| guestname |
+-----+
| John Kay  |
| Mary Tregear |
+-----+
2 rows in set (0.001 sec)
```

```
--6):
select hotelname from hotel natural join room where type='double' AND
type='family';

MariaDB [guest_house]> select hotelname from hotel natural join room where type='double' AND type='family';
Empty set (0.000 sec)

MariaDB [guest_house]>
```

```
--7):
select * from hotel natural join room where type='single' AND type='double';
select hotelname from hotel natural join room where type='single' AND
type='double';

MariaDB [guest_house]> select hotelname from hotel natural join room where type='single' AND type='double';
Empty set (0.001 sec)

MariaDB [guest_house]> select * from hotel natural join room where type='single' AND type='double';
Empty set (0.000 sec)

MariaDB [guest_house]>
```

OR

```
select * from hotel natural join room where type!='family';

MariaDB [guest_house]> select * from hotel natural join room where type!='family';
+-----+-----+-----+-----+-----+-----+
| hotelno | hotelname | city | roomno | type | price |
+-----+-----+-----+-----+-----+-----+
| ch01    | Omni Shoreham | London | 1001 | single | 29.99 |
| ch02    | Phoenix Park | London | 701 | single | 10.00 |
| ch02    | Phoenix Park | London | 801 | double | 15.00 |
| dc01    | Latham | Berlin | 901 | single | 18.00 |
| dc01    | Latham | Berlin | 1001 | double | 30.00 |
| fb01    | Grosvenor | London | 501 | single | 19.00 |
| fb01    | Grosvenor | London | 601 | double | 29.00 |
| fb02    | Watergate | Paris | 1001 | single | 58.00 |
| fb02    | Watergate | Paris | 1101 | double | 86.00 |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.001 sec)
```

```
--9):
select type, price from hotel natural join room where hotelname='Grosvenor';
MariaDB [guest_house]> select type, price from hotel natural join room where hotelname='Grosvenor';
+-----+-----+
| type | price |
+-----+-----+
| single | 19.00 |
| double | 29.00 |
| family | 39.00 |
+-----+-----+
3 rows in set (0.001 sec)
```

```
--11):
select hotelname from hotel natural join room where roomno >2;

MariaDB [guest_house]> select hotelname from hotel natural join room where roomno >2;
+-----+
| hotelname |
+-----+
| Omni Shoreham |
| Omni Shoreham |
| Phoenix Park |
| Phoenix Park |
| Latham |
| Latham |
| Latham |
| Grosvenor |
| Grosvenor |
| Grosvenor |
| Watergate |
| Watergate |
+-----+
12 rows in set (0.012 sec)
```

```
--8):
select hotelname,hotelno,type from hotel natural join room where price < 40.00
AND type='double' OR type='family' order by price asc;

MariaDB [guest_house]> select hotelname,hotelno,type from hotel natural join room where price < 40.00 AND type='double'
OR type='family' order by price asc;
+-----+-----+-----+
| hotelname | hotelno | type |
+-----+-----+-----+
| Phoenix Park | ch02 | double |
| Grosvenor | fb01 | double |
| Latham | dc01 | double |
| Latham | dc01 | family |
| Grosvenor | fb01 | family |
| Omni Shoreham | ch01 | family |
+-----+-----+-----+
6 rows in set (0.001 sec)
```

```
--4):
select roomno, hotelno, hotelname from hotel natural join room natural join
booking where datefrom AND dateto BETWEEN
'2004-01-01' AND '2010-01-01';

MariaDB [guest_house]> select roomno, hotelno, hotelname from hotel natural join room natural join booking where datefro
m AND dateto BETWEEN '2004-01-01' AND '2010-01-01';
+-----+-----+-----+
| roomno | hotelno | hotelname |
+-----+-----+-----+
| 801 | ch02 | Phoenix Park |
| 501 | fb01 | Grosvenor |
| 601 | fb01 | Grosvenor |
| 501 | fb01 | Grosvenor |
+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
--3):
select hotelno, hotelname, price from hotel natural join room order by price
desc LIMIT 1,1;
```

```
MariaDB [guest_house]> select hotelno, hotelname, price from hotel natural join room order by price desc LIMIT 1,1;
```

hotelno	hotelname	price
ch01	Omni Shoreham	59.99

```
1 row in set (0.001 sec)
```

```
--5):
select roomno, hotelno, hotelname from hotel natural join room natural join booking where type='single' order by price desc limit 2,1;
```

```
MariaDB [guest_house]> select roomno, hotelno, hotelname from hotel natural join room natural join booking where type='single' order by price desc limit 2,1;
```

roomno	hotelno	hotelname
501	fb01	Grosvenor

```
1 row in set (0.001 sec)
```

```
--2):
```

```
MariaDB [guest_house]> SELECT * from hotel natural join booking natural join guest WHERE guestname LIKE "%Tony%" or guestname Like "%Farrel%";
```

guestno	hotelno	hotelname	city	datefrom	dateto	roomno	guestname	guestaddress
10007	dc01	Latham	Berlin	2006-05-13	2011-05-15	1001	Tony Shaw	12 Park Pl, Glasgow
10005	fb01	Grosvenor	London	2004-05-02	2004-05-07	501	Carol Farrel	6 Achray St, Glasgow

```
2 rows in set (0.001 sec)
```

```
--2):
SELECT * from hotel natural join booking natural join guest WHERE guestname LIKE "%Tony%" or guestname Like "%Farrel%" and guestaddress= '12 Park Pl Glasgow' or guestaddress='6 Achray St, Glasgow';
```

```
MariaDB [guest_house]> SELECT * from hotel natural join booking natural join guest WHERE guestname LIKE "%Tony%" or guestname Like "%Farrel%" and guestaddress= '12 Park Pl Glasgow' or guestaddress='6 Achray St, Glasgow';
```

guestno	hotelno	hotelname	city	datefrom	dateto	roomno	guestname	guestaddress
10007	dc01	Latham	Berlin	2006-05-13	2011-05-15	1001	Tony Shaw	12 Park Pl, Glasgow
10005	fb01	Grosvenor	London	2004-05-02	2004-05-07	501	Carol Farrel	6 Achray St, Glasgow

```
2 rows in set (0.000 sec)
```

```
MariaDB [guest_house]>
```