Q1

```
mysql> select h.name, r.room_no ,r.type ,r.price
    -> from room as r inner join hotel as h on h.hotel_no = r.hotel_no
    -> where (r.type = 'Double' or r.type = 'Family') and r.price < 7500
    -> order by r.price;
+--------------------------+---------+--------+-------+
| name                     | room_no | type   | price |
+--------------------------+---------+--------+-------+
| Rangiri Dambulla Resort  | 205     | Double | 4500  |
| Rangiri Dambulla Resort  | 203     | Double | 4500  |
| Rangiri Dambulla Resort  | 204     | Double | 4500  |
| The Kingsbury            | 201     | Double | 4500  |
| The Kingsbury            | 206     | Double | 4500  |
| The Kingsbury            | 205     | Double | 4500  |
| The Kingsbury            | 204     | Double | 4500  |
| Rangiri Dambulla Resort  | 206     | Double | 4500  |
| The Kingsbury            | 203     | Double | 4500  |
| The Kingsbury            | 202     | Double | 4500  |
| Rangiri Dambulla Resort  | 201     | Double | 4500  |
| Rangiri Dambulla Resort  | 202     | Double | 4500  |
| Ramada Colombo           | 206     | Double | 5000  |
| Ramada Colombo           | 207     | Double | 5000  |
| Ramada Colombo           | 208     | Double | 5000  |
| Amaya Lake Hotel         | 208     | Double | 5000  |
| Heritance Kandalama      | 201     | Double | 5000  |
| Heritance Kandalama      | 202     | Double | 5000  |
| Heritance Kandalama      | 203     | Double | 5000  |
| Heritance Kandalama      | 204     | Double | 5000  |
| Heritance Kandalama      | 205     | Double | 5000  |
```

Q2

```
mysql> select r.room_no, r.hotel_no, type, price, g.name
    -> from ((room as r left join booking as b on r.room_no = b.room_no and r.ho
tel_no = b.hotel_no) left join guest as g on b.guest_no = g.guest_no)
    -> where r.hotel_no in (
    ->  select hotel_no from hotel where name = 'Anilana Nilaveli'
    -> );
+---------+----------+--------+-------+--------------+
| room_no | hotel_no | type   | price | name         |
+---------+----------+--------+-------+--------------+
| 102     | 00007    | Single | 3500  | Ruvan Gamage |
| 103     | 00007    | Single | 3500  | Gihan Perera |
| 101     | 00007    | Single | 3500  | NULL         |
| 104     | 00007    | Single | 3500  | NULL         |
| 105     | 00007    | Single | 3500  | NULL         |
| 106     | 00007    | Single | 3500  | NULL         |
| 107     | 00007    | Single | 3500  | NULL         |
| 201     | 00007    | Family | 6500  | NULL         |
| 202     | 00007    | Family | 6500  | NULL         |
| 203     | 00007    | Family | 6500  | NULL         |
| 204     | 00007    | Family | 6500  | NULL         |
| 205     | 00007    | Family | 6500  | NULL         |
| 206     | 00007    | Family | 6500  | NULL         |
| 301     | 00007    | Double | 8500  | NULL         |
| 302     | 00007    | Double | 8500  | NULL         |
| 303     | 00007    | Double | 8500  | NULL         |
| 304     | 00007    | Double | 8500  | NULL         |
| 305     | 00007    | Double | 8500  | NULL         |
+---------+----------+--------+-------+--------------+
18 rows in set (0.00 sec)
```

Q3

```
mysql> select sum(price) as total_revenue
    -> from room
    -> where type = 'Double' and hotel_no in (
    ->  select hotel_no from hotel where name = 'Anilana Nilaveli'
    -> );
+---------------+
| total_revenue |
+---------------+
|         42500 |
+---------------+
1 row in set (0.00 sec)
```

Q4

```
mysql> select sum(price) as total_income_today
    -> from room as r inner join booking as b on r.room_no = b.room_no and r.hot
el_no = b.hotel_no
    -> where r.hotel_no in (
    ->  select hotel_no from hotel where name = 'Anilana Nilaveli'
    -> ) and date_from <= CURDATE() and date_to >= CURDATE();
+--------------------+
| total_income_today |
+--------------------+
|               7000 |
+--------------------+
1 row in set (0.00 sec)
```

Q5

```
mysql> select h.name, count(room_no) as no_of_rooms
    -> from room as r inner join hotel as h on r.hotel_no = h.hotel_no
    -> where h.address like '%Dambulla%'
    -> group by r.hotel_no;
+-----------------------+-------------+
| name                  | no_of_rooms |
+-----------------------+-------------+
| Arika Villa           |          17 |
| Sundaras Resort       |          18 |
| Thilanka Resort and Spa |         7 |
| Rangiri Dambulla Resort |        11 |
| Amaya Lake Hotel      |          21 |
+-----------------------+-------------+
5 rows in set (0.03 sec)
```

Q6

```
mysql> select name
    -> from hotel
    -> where address like '%Dambulla%' and hotel_no in (
    ->  select hotel_no from room where type = 'Double'
    -> ) and hotel_no in (
    ->  select hotel_no from room where type = 'Family'
    -> );
+------------------+
| name             |
+------------------+
| Arika Villa      |
| Sundaras Resort  |
| Amaya Lake Hotel |
+------------------+
3 rows in set (0.00 sec)
```

Q7

```
mysql> select h.name, h.address
    -> from room as r inner join hotel as h on r.hotel_no = h.hotel_no
    -> where r.type = 'Double' and address like '%Colombo%'
    -> order by r.price DESC
    -> limit 1;
+-------------+---------------------------------------------------+
| name        | address                                           |
+-------------+---------------------------------------------------+
| Taj Samudra | 25, Galle Face Centre Road, 09411 Colombo, Sri Lanka |
+-------------+---------------------------------------------------+
1 row in set (0.00 sec)
```

Q8

```
mysql> select name
    -> from hotel
    -> where hotel_no not in (
    -> select hotel_no from room where type = 'Double'
    -> );
+--------------------------+
| name                     |
+--------------------------+
| Thilanka Resort and Spa  |
+--------------------------+
1 row in set (0.03 sec)
```