Assignment 13: SQL Clean Code

BEFORE

AFTER

```sql
select id as [Client ID], fname as [Name], country as [branch]
from [HotelSystem].[dbo].[Client];
```

```sql
SELECT id       AS [Client ID],
       fname    AS [Name],
       country  AS [resident country]
FROM  [HotelSystem].[dbo].[Client];
```

```sql
select count(id), country
from [HotelSystem].[dbo].[Client]
group by country;
```

```sql
--
SELECT    COUNT(id) AS ID,
              country
FROM      [HotelSystem].[dbo].[Client]
GROUP BY country;
```

```sql
--
select count(id) AS ID,country
FROM [HotelSystem].[dbo].[Client]
group by country
order by count (id) DESC;
```

```sql
--
SELECT COUNT    (id) AS ID,
            country
FROM        [HotelSystem].[dbo].[Client]
GROUP BY    country
ORDER BY COUNT (id) DESC;
--
```

100 %

Results   Messages

ID	country

```sql
--
select count(id) AS ID,country
FROM [HotelSystem].[dbo].[Client]
group by country
having count (id) >= 5
order by count (id) DESC;
```

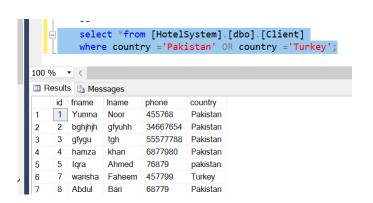|	ID	country
1	44	Pakistan
2	11	turkey
3	9	Germany
4	6	India
5	5	USA

```sql
--
SELECT   COUNT  (id) AS ID,
               country
FROM    [HotelSystem].[dbo].[Client]
GROUP BY      country
HAVING   COUNT  (id) >= 5
ORDER BY COUNT  (id) DESC;
--
```

	ID	country
1	44	Pakistan
2	11	turkey
3	9	Germany
4	6	India
5	5	USA

```sql
--
select *from [HotelSystem].[dbo].[Client]
where country ='Pakistan' OR country ='Turkey';
```

	id	fname	lname	phone	country
1	1	Yumna	Noor	455768	Pakistan
2	2	bghjhjh	gfyuhh	34667654	Pakistan
3	3	gfygu	tgh	55577788	Pakistan
4	4	hamza	khan	6877980	Pakistan
5	5	Iqra	Ahmed	76879	pakistan
6	7	warisha	Faheem	457799	Turkey
7	8	Abdul	Bari	68779	Pakistan

```sql
--
SELECT *FROM [HotelSystem].[dbo].[Client]
WHERE        country ='Pakistan' OR
             country ='Turkey';
--
```

	id	fname	lname	phone	country
1	1	Yumna	Noor	455768	Pakistan
2	2	bghjhjh	gfyuhh	34667654	Pakistan
3	3	gfygu	tgh	55577788	Pakistan
4	4	hamza	khan	6877980	Pakistan
5	5	Iqra	Ahmed	76879	pakistan
6	7	warisha	Faheem	457799	Turkey
7	8	Abdul	Bari	68779	Pakistan

```sql
select [room_type], [room_id]
from [HotelSystem].[dbo].[rooms]
where [room_id] IN
    (select  [room_id]
    from [HotelSystem].[dbo].[rooms]
    where [room_type] = 2)
```

```sql
SELECT [room_type],[room_id]
FROM   [HotelSystem].[dbo].[rooms]
WHERE  [room_id] IN
       (SELECT [room_id]
       FROM   [HotelSystem].[dbo].[rooms]
       WHERE   room_type = 2
       );
```

```sql
select fname AS Name, country
from [HotelSystem].[dbo].[Client]
where id NOT IN
    (select id
    from [HotelSystem].[dbo].[reservation]
    where country = 'Pakistan'
    OR country = 'Turkey'
    OR country = 'India')
```

```sql
SELECT fname    AS   Name,
       country  AS [resident country]
FROM   [HotelSystem].[dbo].[Client]
WHERE id NOT IN
       (SELECT id
       FROM [HotelSystem].[dbo].[Client]
       WHERE country='Pakistan' OR
             country='Turkey'    OR
             country='India'
       );
```

	id	fname	lname	phone	country
1	1	Yumna	Noor	455768	Pakistan
2	2	bghjhjh	gfyuhh	34667654	Pakistan
3	3	gfygu	tgh	55577788	Pakistan
4	4	hamza	khan	6877980	Pakistan
5	5	Iqra	Ahmed	76879	pakistan

```sql
--
select distinct fname AS [Customer Name]
from [HotelSystem].[dbo].[Client] AS c
INNER JOIN [HotelSystem].[dbo].[reservation] AS r
ON c.id = r.id
where country = 'Pakistan'
AND roomNumber >= 1;
```

	Customer Name
1	Abdul
2	Abid
3	Iqra
4	Muhammad
5	Nehal
6	Wajiha
7	Yumna

```sql
--
SELECT DISTINCT
        fname AS [Customer Name]
FROM
        [HotelSystem].[dbo].[Client] AS c
INNER JOIN
        [HotelSystem].[dbo].[reservation] AS r
        ON c.id = r.id
WHERE
        country = 'Pakistan' AND
        roomNumber >= 1;
```