

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "group by" for the query "List each 'E', and its 'A's that have 'C'<5?"

- True
- False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "Group by" for the query "List each 'D' state, along with its minimum 'B' (in each state)?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "Group by" for the query "List each 'D' whose average of 'B' is larger than 10?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "Group by" for the query "List each 'D' and its 'B' that is larger than 10?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Will table "TA" be enough to solve the query "List each 'E', and its 'A's that have 'C' < 5?"

- ➔ True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Will table "TA" be enough to solve the query "List each 'E', and its 'A's that have 'Y' < 65?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

For the query "List each 'E', and its 'A's that have 'Y'<65," is it true that the table name ('TA' or 'TB') can be omitted for EACH attribute that is in the "select" statement/line?

- True
- False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

For the query "List each 'E', and its 'A's that have 'C' < 5," is it true that the table name ('TA' or 'TB') can be omitted for EACH attribute that is in the "select" statement/line?

- ➔ True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "Where" for the query "List each 'E', and its 'A's that have 'C'<5?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "where" for the query "List each 'D' state, along with its minimum 'B' (in each state)?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "where" for the query "List each 'D' whose average of 'B' is larger than 10?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
Z	X	C
Blue	summer	10
green	fall	4
Red	winter	10
white	spring	6

Do you need "where" for the query "List each 'Z', and its relevant 'A's?"

- True
- False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "having" for the query "List each 'E', and its 'A's that have 'C' < 5?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "having" for the query "List each 'D' state, along with its minimum 'B' (in each state)?"

- True
- False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "having" for the query "List each 'D' whose average of 'B' is larger than 10?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
Z	X	C
Blue	summer	10
green	fall	4
Red	winter	10
white	spring	6

Do you need "having" for the query "List each 'Z', and its relevant 'A's'?"

- True
- False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "group by" for the query "List each 'D' that has at least one record of 'C'>5?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "where" for the query "List each 'D' that has at least one record of 'C'>5?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "having" for the query "List each 'D' that has at least one record of 'C'>5?"

- True
- False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "nested SQL" for the query "List each 'D' that has at least one record of 'C'>5?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

Do you need "Nested SQL" for the query "List each 'D', where its count of 'A' exceeds the average?"

- True
 False

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

For the query "List each 'E', and its 'A's that have 'Y' < 65" from the attached tables, which attribute is used as the multiple-table connector to avoid display redundancy? _____ (E)

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
Z	X	C
Blue	summer	10
green	fall	4
Red	winter	10
white	spring	6

For the query "List each 'Z', and its 'A's that have 'B'>5" from the attached tables, which attribute is used as the multiple-table connector to avoid display redundancy? _____ (C)

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

```
SELECT E, max(B) AS [High], min(B) AS [Low], count(A) AS [count]
```

```
FROM TA
```

```
WHERE c=4
```

```
GROUP BY E
```

```
HAVING count(A)>1;
```

How many groups do you have after 'group by' but before 'having' is executed?" _____ **(3)**

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

```
SELECT E, max(B) AS [High], min(B) AS [Low], count(A) AS [count]
```

```
FROM TA
```

```
WHERE c=4
```

```
GROUP BY E
```

```
HAVING count(A)>1;
```

How many 'A' records in GROUP 'red' does the original table have before the query is executed? _____ (4)

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

```
SELECT E, max(B) AS [High], min(B) AS [Low], count(A) AS [count]
```

```
FROM TA
```

```
WHERE c=4
```

```
GROUP BY E
```

```
HAVING count(A)>1;
```

How many 'A' records do you have in GROUP 'red' that is selected in the final as the result for display? _____ (2)

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -

TA				
A	B	C	D	E
4	8	10	PA	red
6	7	4	DE	red
8	6	10	NJ	red
10	18	4	NJ	red
12	15	4	NJ	blue
14	5	10	PA	blue
16	4	10	PA	white
18	11	4	PA	white
20	13	4	DE	blue
22	17	10	PA	blue
24	8	4	NJ	blue

TB		
E	X	Y
Blue	summer	50
green	fall	70
Red	winter	70
white	spring	60

```
SELECT E, max(B) AS [High], min(B) AS [Low], count(A) AS [count]
```

```
FROM TA
```

```
WHERE c=4
```

```
GROUP BY E
```

```
having count(A)>1;
```

How many GROUPs are selected as the result for display at the end? _____ (2)

Comment: (given as feedback)

- No comment specified. -

Hint:

- No hint specified. -