1 Des relations et des requêtes

Soient R et S deux relations dont la valeur est donnée dans les tableaux suivants :

R	A	В
	5	9
	2	7
	5	12

В	С
9	100
12	101
8	110
7	101
8	112
9	120
9	101

Question 1:

Donner, sous forme tabulaire, le schéma et la valeur de la relation construite par chacune des requêtes ci-dessous. Il peut s'agir d'un message d'erreur Oracle. Dans ce cas, expliquez la cause de l'erreur.

2. SELECT DISTINCT B FROM R JOIN S USING (B);

3. SELECT DISTINCT A, C FROM R JOIN S ON (R.B > S.B);

| 5 | 112 | | 5 | 120 | -----

4. SELECT B, COUNT(*)
FROM S
GROUP BY B;

	В		COUNT(*)	
-		- -		-
-	7	1	1	
-	8		2	1
-	9		3	1
	12		1	

5. SELECT C FROM S GROUP BY B, C;

```
| C |
|----|
| 100 |
| 101 |
| 110 |
| 101 |
| 120 |
| 101 |
```

6. SELECT B, AVG(C) AS Moyenne
FROM S
GROUP BY B;

| B | Moyenne | |----|-----| | 7 | 101 | | 8 | 111 | | 9 | 107 | | 12 | 101 |

7. SELECT B
FROM S
GROUP BY B
HAVING MAX(C) > 101;

| B | |---| | 8 | | 9 |

8. SELECT C
FROM S
GROUP BY C
HAVING COUNT(DISTINCT B) IN (
SELECT COUNT(DISTINCT B)
FROM R

);

| C | |--- | | 101|

9. SELECT MAX(C) AS maxC
FROM S;

| maxC | |---- | | 120 |

10. SELECT C, MAX(B) AS maxB
FROM S
GROUP BY C;

+----+
| C | maxB |
+----+
| 100 | 9 |
+----+
| 101 | 12 |
+----+
| 110 | 8 |
+----+
| 112 | 8 |
+----+
| 120 | 9 |