

Assignment Project Exam Help

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**Last Time:**

Find the pids of parts supplied by at least two different suppliers.

**Sample Solution:**

```
SELECT DISTINCT C.pid
FROM Catalog C
WHERE EXISTS (SELECT C1.sid
                FROM Catalog C1
                WHERE C1.pid = C.pid AND C1.sid <> C.sid);
```

*Nested query (not necessary)*

**Task!**

Utilizing the same relations and sample SQL query above, convert them into Relational Algebra.

Note: your SQL query may not translate directly, so you may need to alter the query above.

## Assignment Project Exam Help

Find the pids of parts supplied by at least two different suppliers.

*C := Catalog*  
*C1 := Catalog*

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$$\sigma \left( \pi_{C.PID} \left( \sigma_{C.PID = C1.PID \wedge C.SID \neq C1.SID} (C \times C1) \right) \right)$$

Visually:

