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Relational Algebra

Consider the schema:

Suppliers(sid:integer, sname:string, address:string)

Parts(pid:integer, pname:string, color:string)

Catalog(sid:integer, pid:integer, cost:real)

Write relational algebra expressions for the following queries:

1. Find the SIDs of all suppliers who supply either a red or a green part.
2. Find the SIDs of all suppliers who supply both a red part and a green part.
3. Find the SIDs of all suppliers who supply either a red part or are located at "123 University".
4. Find the PIDs of all parts that are supplied by two or more suppliers.
5. Find the names of all suppliers who do not supply any parts.