1. GSQL Query:

```
create query final() for graph FinalGraph {
        typedef tuple<vertex src_node, vertex tar_node> tup;
        SetAccum<tup> @@source_target;
        ListAccum<VERTEX> @@vertexList;
        SetAccum<VERTEX> @@target_nodes, @@target_nodes_E, @@avoid_loops;
        SumAccum<INT> @@stop;
        source_vertex = {ANY};
        source_node = SELECT v FROM source_vertex:v ACCUM @@vertexList += v;
        target_node (ANY) = source_node;
        FOREACH src in @@vertexList DO
                @@stop=0;
                source_node = {src};
                target_node_A_to_E = SELECT t FROM source_node-(A)->ANY:t;
                target_node = SELECT t FROM source_node-(A)->ANY:t;
                WHILE @@stop==0 D0
                        tempB = SELECT t FROM target node:s-(B)->ANY:t WHERE s NOT IN
@@avoid_loops ACCUM @@target_nodes += t, @@avoid_loops += s;
                        tempC = SELECT t FROM target_node-(C)->ANY:t;
                        tempD = SELECT t FROM tempC:s-(D)->ANY:t WHERE s NOT IN @@avoid_loops
ACCUM @@target_nodes += t, @@avoid_loops += s;
                        tempE = SELECT t FROM tempB-(E)->ANY:t ACCUM @@target nodes E += t;
                        tempE = SELECT t FROM tempD-(E)->ANY:t ACCUM @@target nodes E += t;
                        IF tempB.size()==0 AND tempD.size()==0 THEN @@stop=1;
                        ELSE target_node = @@target_nodes;
                        @@target_nodes.clear();
                END:
                tar = SELECT t FROM target node A to E-(E)->ANY:t ACCUM @@target nodes += t;
                tar = SELECT t FROM target_node-(E)->ANY:t ACCUM @@target_nodes += t;
                FOREACH tar_node in @@target_nodes_E DO
                        @@target_nodes += tar_node;
                END;
                @@target_nodes_E.clear();
                FOREACH tar_node in @@target_nodes DO
                        @@source_target += tup(src, tar_node);
                END;
                @@target_nodes.clear();
                @@avoid_loops.clear();
        END:
        PRINT @@source_target;
}
```

2. **GREMLIN Query:**

```
g.V().union(g.V().as("src").both("A").repeat(union(both("B"),
both("C").both("D")).simplePath()).emit().both("E").as("tar").select("src",
"tar").by("name"), g.V().as("src").both("A").both("E").as("tar").select("src",
"tar").by("name")).dedup()
```