

Answer the following questions:

1. a) Why can a component not be considered as a microservice?

 - b) Suppose, you are building a social media app like Facebook. Choose an architecture between monolithic and microservice. Justify your answer by mentioning the reasons and advantages you have considered choosing one over another.

 - c) Differentiate Orchestration vs. Choreography in Saga pattern of microservices.

 2. Figure 1 represents a normalized relationship among tables. Write two reporting queries that require joining at least 3 tables. Redesign the normalized tables by introducing Reporting Database design. (Partial solution to fulfill the queries is enough).

3
(CO2)
(PO1)

 5
(CO2)
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 5
(CO2)
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 5
(CO1)
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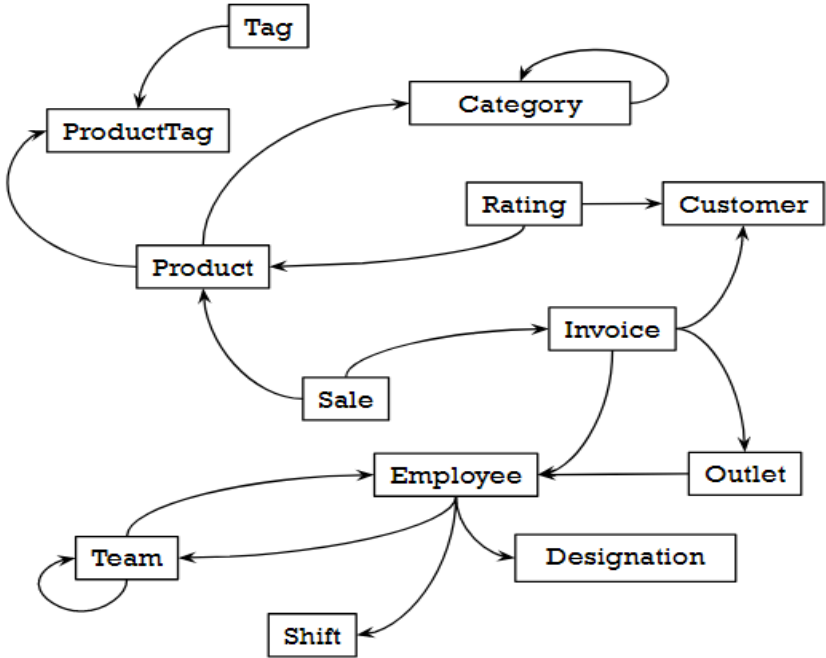


Figure 1: A normalized view of Relational Database for kids’ shop software