**PRINCIPLES ON DATA FRAGMENTATION**

Name:

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Given the following relations and fragments:

**Global Relations**

Kids(kidId, name, address, age)

Toys(toyId, name, price)

Requests(kidId, toyId, willingness)

Note that requests(kidId) is a foreign key to kids(kidId) and similarly, requests(toyId) references toys(toyId).

**Fragments**

K1= Kids[kidId, name]

K2= Kids[kidId, address, age]

T1= Toys(price >= 150)

T2= Toys(price < 150)

R1 = Requests T1

R2 = Requests T2

Answer the following questions:

* *Briefly explain which fragmentation strategy has been applied for the database above.*

For the first two fragments we used a vertical fragmentation strategy.

For the third and fourth ones, we used a derived fragmentation strategy.

* *Is this fragmentation strategy complete and disjoint? Can we reconstruct the global relations? Explicit the algebraic operation you would use to reconstruct the global relation.*