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Circus (show\_date, show\_time, attraction\_name, show\_numb, collection\_date, amount\_collected, attraction\_description)

1) What is the primary key of this relation?

show\_numb + attraction\_name + collection\_date

2) Describe the insertion anomalies present in this relation.

Cannot create an attraction without creating a new show.

3) Describe the deletion anomalies present in this relation.

Deleting a show will also delete an attraction.

4) Decompose this relation into a set of third normal form relations. Remember to underline primary keys.

|  |  |  |
| --- | --- | --- |
| Collections | Attractions | Shows |
| Amount\_collected  Collection\_date  Attraction\_name | Attraction\_name  Attraction\_description | Show\_date  Show\_time  Show\_numb |

5) Create MySql diagram for the results tables

Diagram

Description automatically generated

6) How would you store this data using cosmos db. What json models would look like?

{

    "attraction\_name" : "name",

    "attraction\_description" : "description",

    "collections" : [

        {

            "collection\_date" : "friday",

            "amount\_collected" : 50.00

        },

        {

            "collection\_date" : "saturday",

            "amount\_collected" : 100.00

        }

    ]

}

{

    "show\_numb" : 0,

    "show\_date" : "tuesday",

    "show\_time" : "5pm"

}