

Topic: Week-long beach vacation packing list

(Attempting not to use ID columns as we were warned of in the live session!)

Relations:

1. Trip:

- Location - VARCHAR (100) not null
- Days - INT not null

Super Key(s):

- Location
- Days
- Location, Days

Candidate Key(s): Location

Primary Key: Location; I implemented and chose this key as primary because it is a simple way to uniquely identify a row, as we learned in the week one presentation, so it is the best fit for a primary key.

2. Items:

- I_Name - VARCHAR (100) not null
- Amount - INT not null

Super Key(s):

- I_Name
- Amount
- Name, Amount

Candidate Key(s): I_Name

Primary Key: I_Name; Chosen as the primary key because it is the candidate key that most efficiently uniquely identifies a row.

3. Check_List:

- FOREIGN KEY (Location) REFERENCES Trip (Location)
- FOREIGN KEY (I_Name) REFERENCES Items (I_Name)
- Packed - TINYINT(1) not null

Super Key(s):

- | | |
|------------|--------------------|
| ● Location | ● Location, I_Name |
| ● I_Name | ● Location, Packed |
| ● Packed | ● I_Name, Packed |

Candidate Key(s): Location, I_Name

Primary Key: Location, I_Name; Chosen as the primary key because they are the candidate keys that most efficiently uniquely identify a row.