# The Third Normal Form Design Review

## Transitive Dependency Revealed

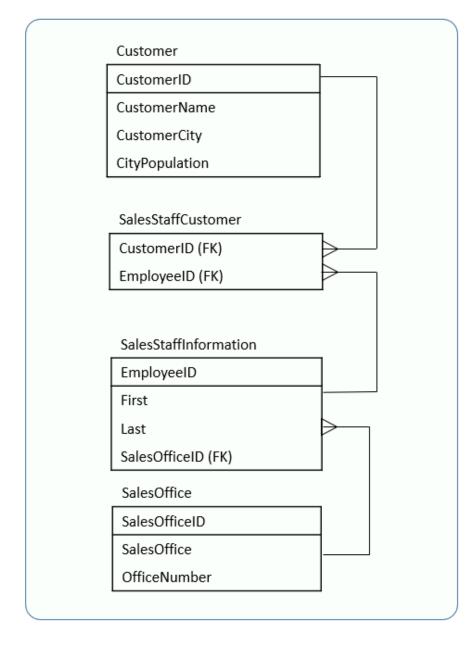
Customer				
<u>CustomerID</u>	CustomerName	Cu	stomerCity	Population
C1000	Ford	De	arborn	94000
C1010	GM	De	troit	670000
C1020	Dell	Au	stin	950000
C1030	HP	Pal	lo Alto	67000
C1040	Apple	Cu	pertino	60000
C1050	Boeing	Ch	icago	2700000

Customer					
CustomerName	CityID				
Ford	CI10				
GM	CI20				
Dell	CI30				
HP	CI40				
Apple	CI50				
Boeing	CI60				
	Ford GM Dell HP Apple				

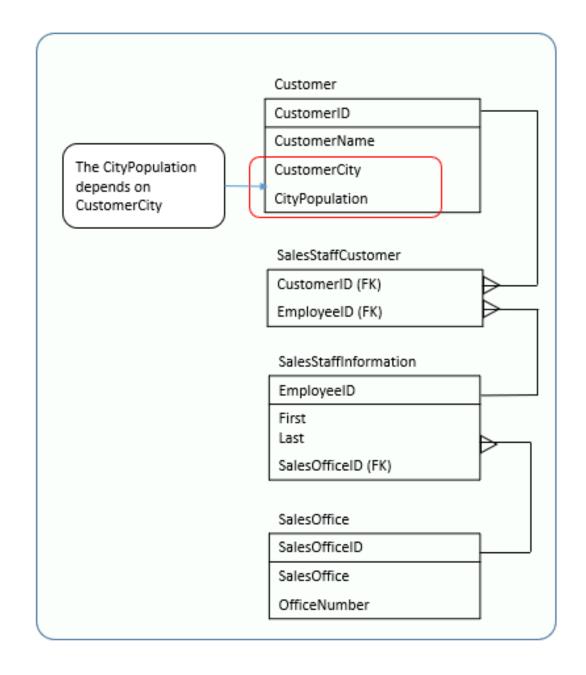
CityID	CityName	Population
CI10	Dearborn	9400
CI20	Detroit	670000
CI30	Austin	950000
CI40	Palo Alto	67000
CI50	Cupertino	60000
CI60	Chicago	2700000

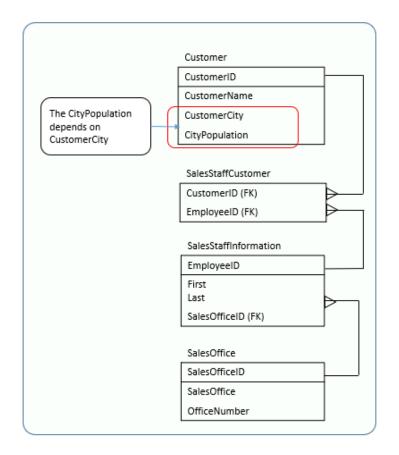
# Improved Tables

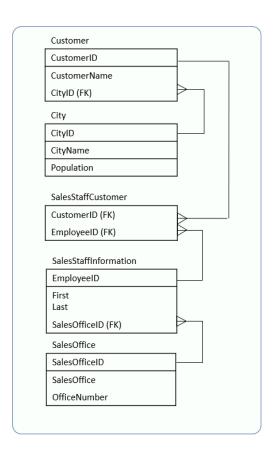
### Second Normal Form Design



### Second Normal Form Design Issues





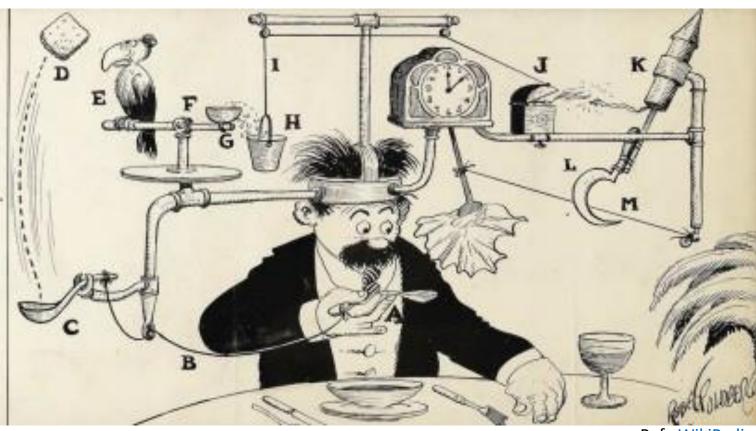


### Third Normal Form Design

STROFESSOR BUTTS WALKS IN HIS SLEEP,
STROLLS THROUGH A CACTUS FIELD IN HIS
BARE FRET, AND SCREAMS OUT AN IDEA FOR A
SELF-OPERATING NAPKIN:
AS YOU RAISE SPOON OF SOUP (A) TO YOUR

As you raise spoon of soup (A) to your mouth it pulls string (B) thereby Jerking Ladle (C) which throws cracker (D) past parrot (E). Parrot Jumps after cracker and perch(F) tilts, upsetting seeds (G) into pal(H). Extra weight in Pail pulls cord(I) which opens and lights automatic cigar lighter (I), setting off sky-rocket (K) which causes sickle (L) to cut string (M) and allow pendulum with attached napkin to swing back and forth thereby wiping off your Chin.

AFTER THE MEAL, SUBSTITUTE A HARMONICA FOR THE NAPKIN AND YOU'LL BE ABLE TO ENTERTAIN THE GUESTS WITH A LITTLE MUSIC.



Ref: WikiPedia

### Can Normalization Get out of Hand?