

## Lab 4

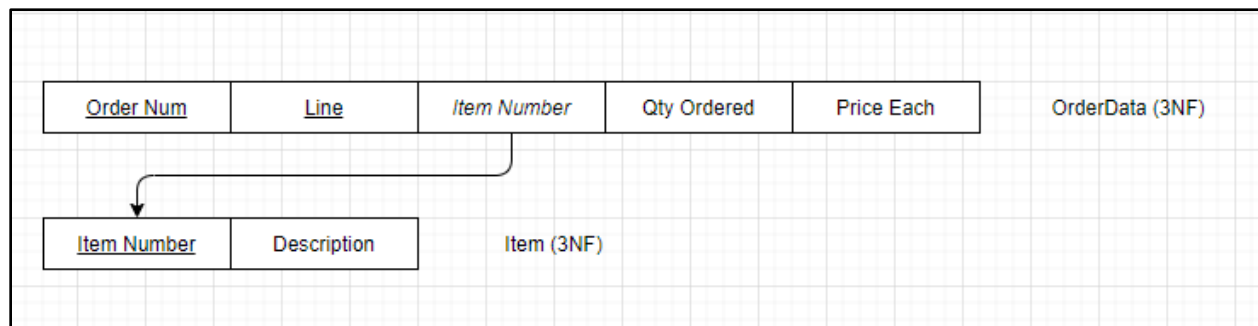
## Part 1 Normalizing an Existing Dataset

## Case Study 2: More Bikes

*The following represents the OrderData relation in its 3NF. There was only one TFD that needed a new relation. Price each could be a TFD but is not in this case.*

OrderData(Order Num, Line, *Item Number*, Qty Ordered, Price Each)

*Item*(Item Number, Description)



### Case Study 3: Books Again

All Access Objects

Search...

Tables

Book

Publisher

Publisher

PublisherID	PublisherName	Click to Add
1	Pearson	

BookID	BookTitle	Authors	PublishedYear	Click to Add
2	Modern Database Systems	Hoffer, Kamesh	2015	
3	Data Structures	Welss	2014	
*	(New)		0	

BookID	BookTitle	Authors	PublishedYear	Click to Add
1	Languages and	Sudkamp	1997	
*	(New)		0	

I believe that the book table is in 3NF, because there are not any PFD's or TFD's. The candidate key in the table would be the combination of the "BookTitle" & "Authors" fields in which both the "PublishedYear" and "PublisherName" fields are fully dependent on the entire candidate key.

10/22/2020

Lab 4

## Part 2 Normalizing Video Data for VidCast

VideoID	VideoTitle	UserName	UserTier	Min Tier Followers	Stream Start	Video Dur	Content R	Rating	Description
1	Using SQL	ChadOnData	Platinum	1000	5/9/2018 21:40	48	E		Everyone
2	Just how great is jim boheim	ChuckLazerbeam	Gold	500	1/9/2018 10:50	111	E		Everyone
3	Top hats are cool	TheSaulHudson	Silver	200	5/30/2018 23:10	131	M		Mature audiences
4	How many years for the man in black	TyroneRugen	Bronze	0	1/13/2018 14:50	104	M		Mature audiences
5	Digital underground: are they the best?	ChuckLazerbeam	Gold	500	2/20/2018 23:30	20	C		Viewer caution recommended
6	Check out these new glasses	RegDwight	Platinum	1000	11/1/2018 22:32	17	E		Everyone
7	PolyDactyly and you	TyroneRugen	Bronze	0	9/28/2018 10:16	180	C		Viewer caution recommended
8	Meeting vizini at the beginning	TheSpaniard	Platinum	1000	11/26/2018 8:55	123	E		Everyone
9	Me and my les paul	TheSaulHudson	Silver	200	3/15/2018 5:17	64	M		Mature audiences
10	Careful jogging of memories: a retrospective	RhymingGiant	Bronze	0	10/9/2018 16:05	114	E		Everyone

**The following represents the VideoData relation in its 3NF. There were not any PFD's because there is a single field as a primary key, "VideoID". There were three TFD's that were resolved.**

VideoData(VideoID, VideoTitle, Username, Stream Start, Video Duration, Content Rating)

User(UserName, UserTier)

Tier(UserTier, Min Tier Followers)

Content(Content Rating, Rating Description)

