### **CS 1656 -** Introduction to Data Science - Fall 2016

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## 14 - SQL - October 24, 2016

#### Prices

#### ColorChoices

Eff_Date	Prod_Num	Currency	Price	Disc_Type	Discount
2006-11-15	557	USD	29.99	CLR	10.00
2006-11-15	563	USD	69.99		
2006-11-15	443	USD	39.99	CLR	3.99

number	color_choice
557	navy
557	black
784	white
784	gray

#### OrderItems

#### Orders

OrderNum	Dept	ProdNum	Quant	Color
00299432	WMN	557	1	navy
00299432	ACC	563	1	
00299432	ACC	443	2	
00299432	MEN	784	1	white
00299432	MEN	784	1	gray
00299432	WMN	557	1	black

OrderNum	Date	Cust
00299432	2006-09-15	0221A

#### Catalog

number	dept	prod_name	prod_desc
557	WMN	Fleece Pullover	
563	ACC	Floppy Sun Hat	
443	ACC	Deluxe Travel Bag	
784	MEN	Cotton Dress Shirt	Our <i>favorite</i> shirt!

# (Q2) How many rows will the output of the following query have (i.e., what is its cardinality)?

select prod\_name, dept from Catalog where number > 500

- (Q3) How many columns will the output of the following query have (i.e., what is its arity)? select prod\_name, dept from Catalog where number > 500
- (Q4) How many columns will the output of the following query have (i.e., what is its arity)? select prod\_name, dept from Catalog where number > 1000
- (Q5) How many rows will the output of the following query have (i.e., what is its cardinality)?

select \* from Catalog, Prices

(Q6) How many columns will the output of the following query have (i.e., what is its arity)? select \* from Catalog, Prices