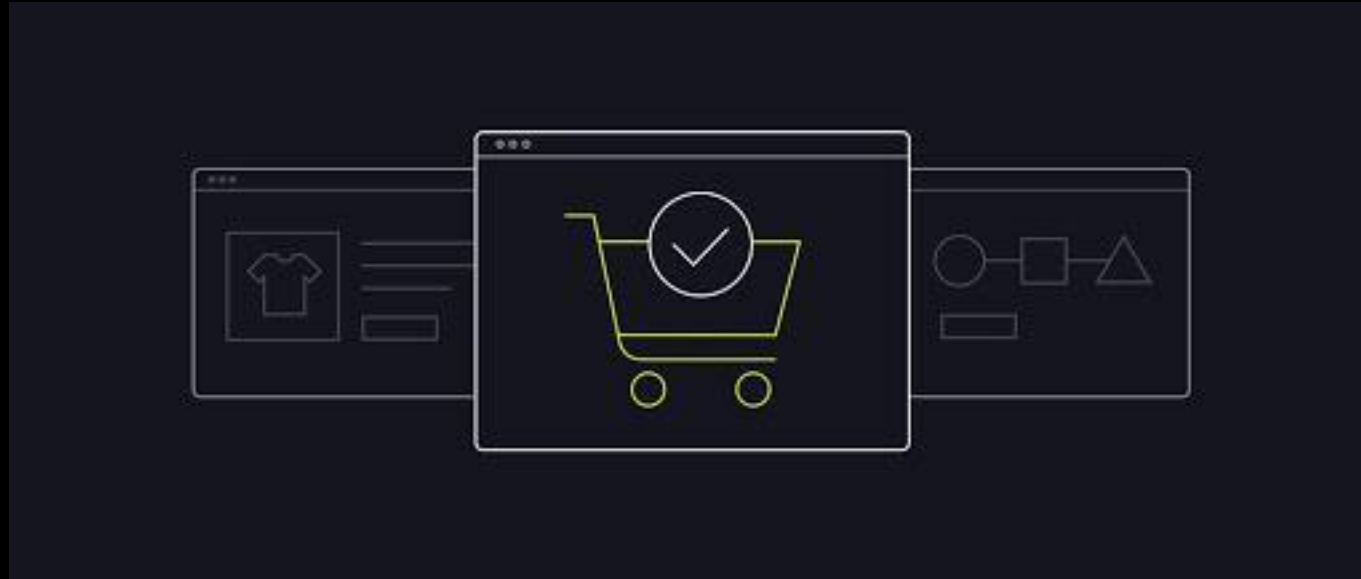




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Ecommerce Data Dashboard



Sirus Baladi & Jimmy Baranello



Presentation Outline

- ✓ User-case
- ✓ Database Design
 - E-R Model
 - Participation and key constraints
- ✓ Queries
- ✓ UI
 - User interaction
 - Queries output
 - Attention to details



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User Case

- ✓ Centralized dashboard for quick data overview
- ✓ For Ecommerce owners

The New York Times

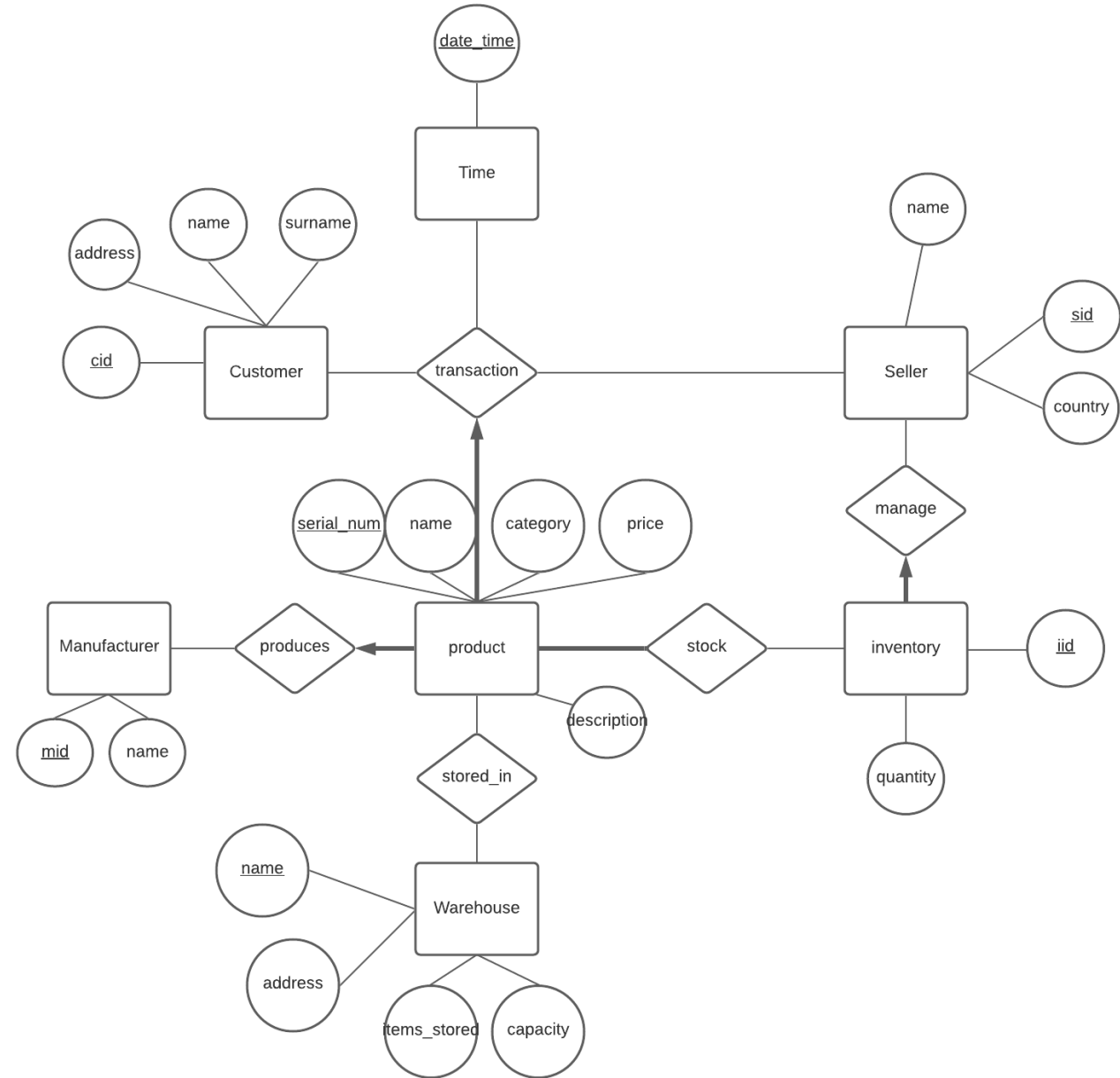
An E-Commerce Future, Ready or Not

THE WALL STREET JOURNAL.

Retailers See E-Commerce Investments Pay Off Big as Coronavirus Keeps Shoppers Home

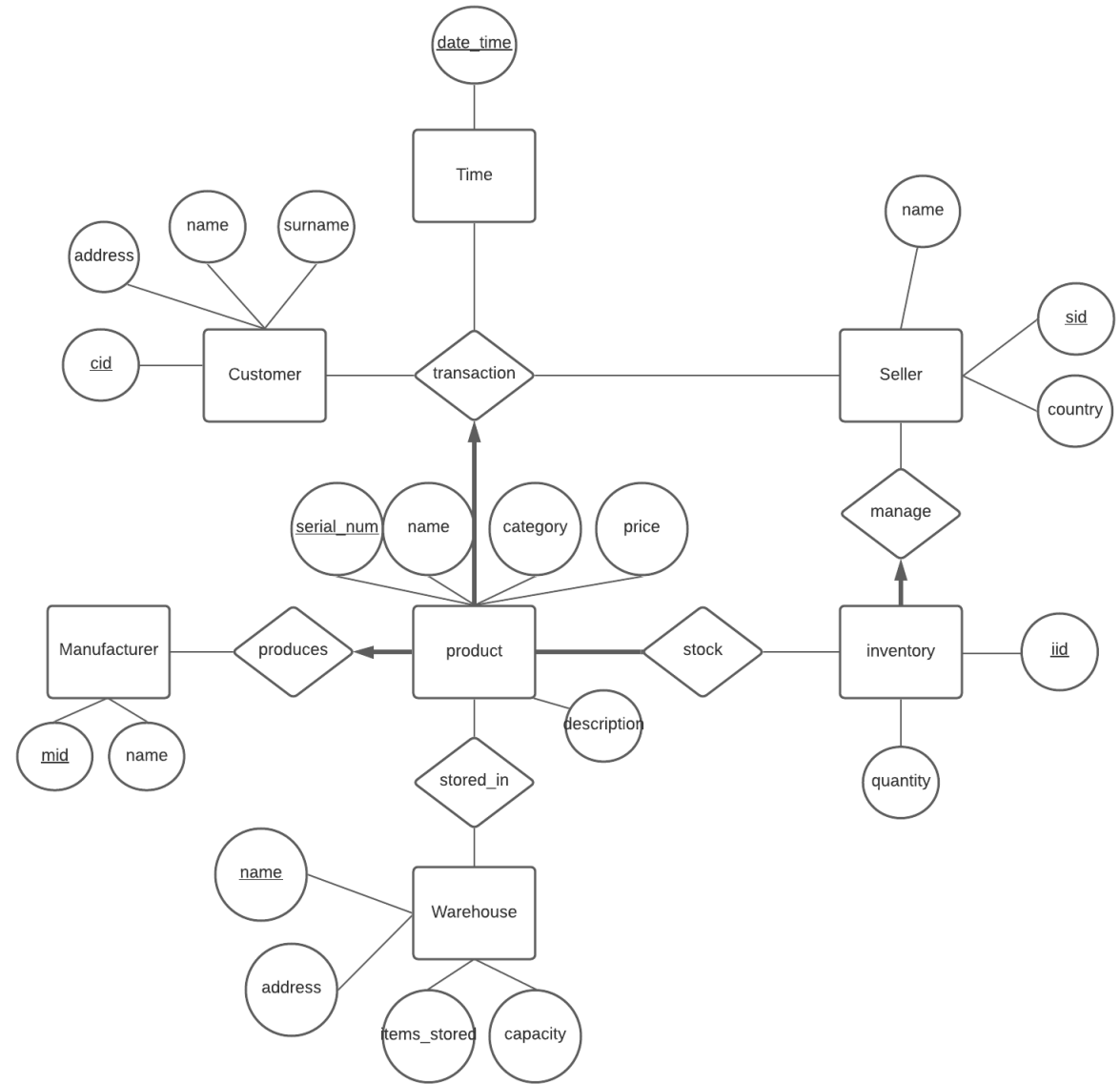
ER-Model

- 7 entity sets
- 5 relationship sets
- 20 attributes



Participation & Key Constraints

- ✓ Product - produces - transaction
- ✓ Inventory - Manage
- ✓ Stock - Product





Queries

Use of joins and GROUP BY
✓ 16 Tables Joined & 2 Group By

Examples

- ✓ Total Sales By Date & Seller
 - 2 tables joined and a Group By

Date range selected: 2020-04-18 2021-11-23

	seller	sum
0	Galactic Shop	\$33.00

- ✓ Best Selling Products
 - 4 joined a Group By

Order

DESC

	name	sold
0	Sony WH-1000XM4	8
1	Vitamin C	8
2	Paper Towels	8
3	Head and Shoulders Shampoo	7
4	American Crew Gel	7



User interaction

Date selection Drop downs

Choose a seller

Galactic Shop

▼

See all sellers

Pharmapacks

iServe

Zappos

Asurion, LLC

AnkerDirect

Spreetail

EDS Family Direct

← January 2020 →

S M T W T F S

1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

26 27 28 29 30 31

Select a start date

2020/01/01

Select an end date

2021/12/12

Queries Output

Types:

- Tables
- Text

	product_name	quantity	seller_name
0	Black Panter Action Figure	5317	Jenson Books Inc
1	Black Panter Action Figure	476	Vermont Christmas Co
2	Black Panter Action Figure	1497	AstroAI Corporation
3	Black Panter Action Figure	1913	ZQUARED

Products Produced By Manufacturer

Choose a manufacturer

Head and Shoulders



Head and Shoulders is producing the following product: Head and Shoulders Shampoo.



Attention to details

Select an end date

2024/10/09

Choose a seller

Galactic Shop

You cannot select a date in the future

Choose a manufacturer

Sumace

Sumace is not producing any product at the moment

Choose a manufacturer

Bounty

Bounty is producing the following product: Paper Towels.

Choose a manufacturer

Marvel

Marvel is producing the following products: Black Panter Action Figure and Spiderman Action Figure.



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Thank you