Macy's Fulfill Online Order Process

Team 8: Meghana Kasula Qiuyi Jia Shaloma Ghosh Yanan Wang Ziqi Wu

Agenda

- 1. Introduction
- 2. Business process
- 3. Issues in the as-is process
- 4. Improvements and to-be process
- 5. Design of our database ER Diagram
- 6. Sample SQL reports

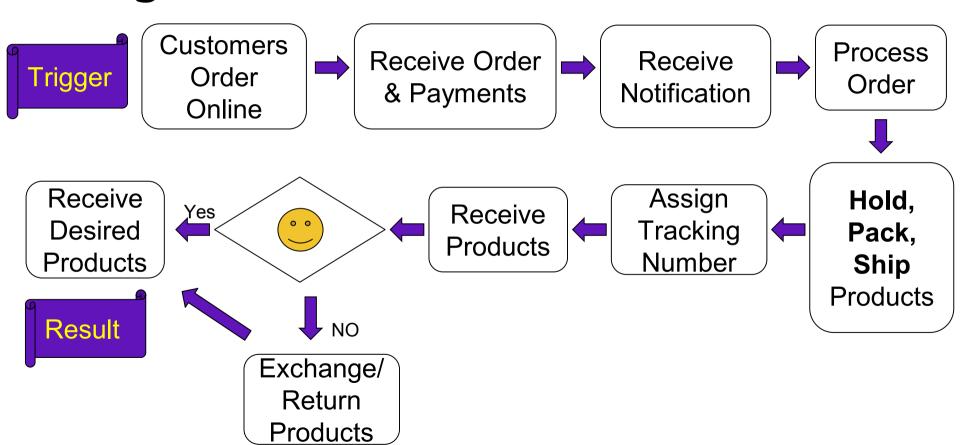
Company Description

- One of the most *excellent* retailers in US;
- 870 stores in 45 states;
- Essential part:

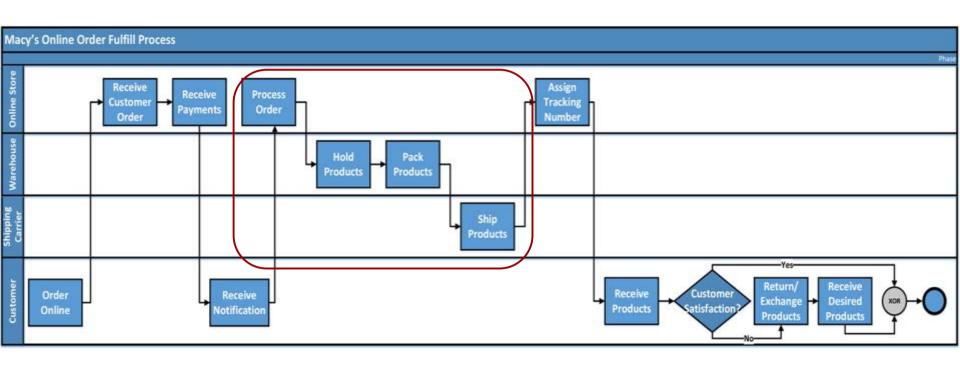
Fulfill Online Order process.



Macy's Fulfill Online Order Process

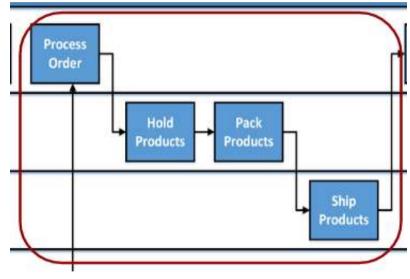


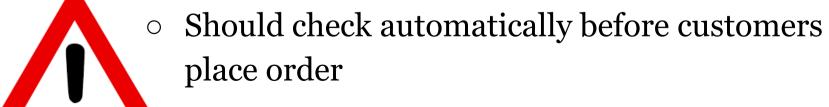
As-Is Process



Issues of AsIs Process

- Time delay
 - o Process orders
 - Ship orders
- Inventory are not checked promptly





Improvements

- Improving Support Facilities:
 - Automatic Checking System to track inventory

- Changing the Workflow:
 - Pick up at the store

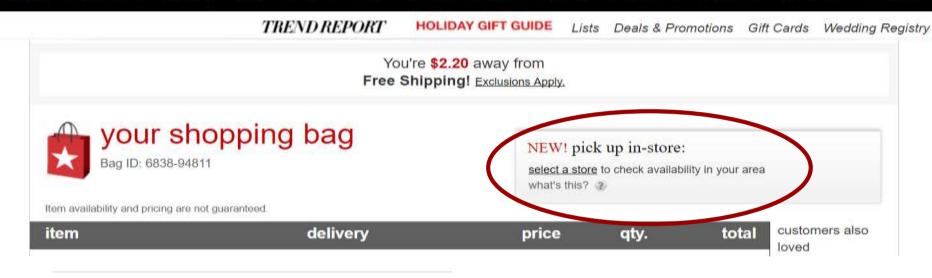


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HOME BED & BATH WOMEN MEN JUNIORS KIDS ACTIVE BEAUTY SHOES HANDBAGS JEWELRY WATCHES BRANDS



Availability



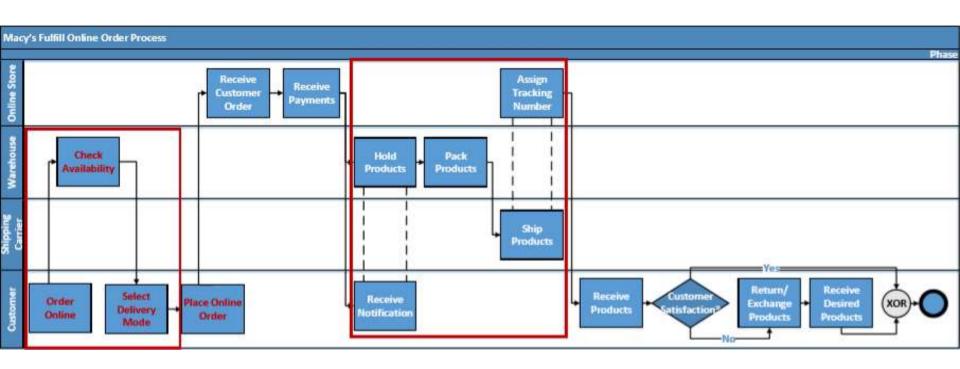
Ship

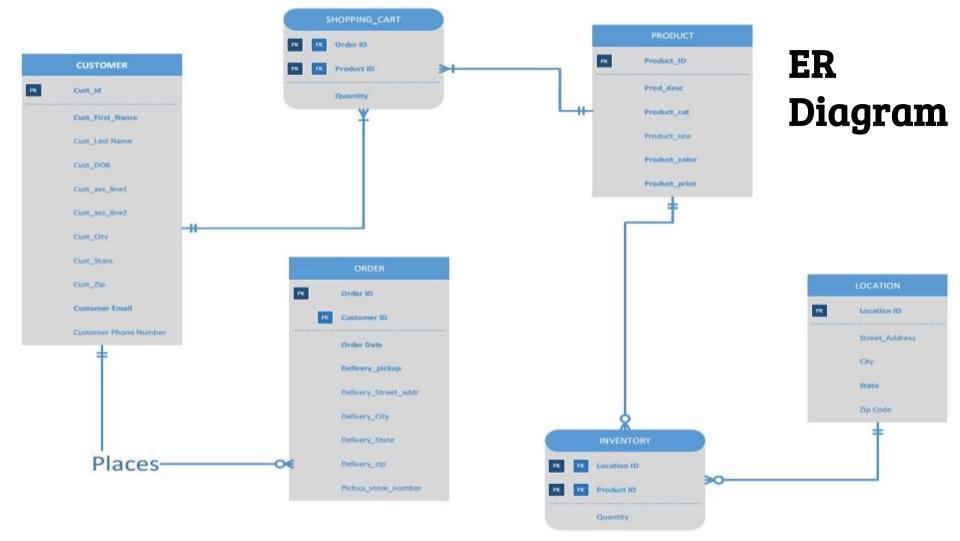
in stock



Pick up in store Check Store Availability

To-Be Process





SQL Reports Revenue Obtained By the Two Methods

	DELIVERY_PICKUP	REVENUE		
1	Delivery	\$268.10		
2	Pickup	\$194.23		

How many customers choose delivery because of the unavailability of products for store pickup?

```
select o.cust_id,sc.PRODUCT_ID,o.order_id,lc.LOCATION_ID "Nearest Store",
iv.QUANTITY "Quantity at nearest store",sc.QUANTITY "Quantity ordered"
from orders o
join shopping_cart sc
on o.order_id=sc.ORDER_ID
join LOCATION_DETAILS lc
on upper(o.DELIVERY_CITY) = upper(lc.CITY)
JOIN inventory iv
on lc.LOCATION_ID=iv.LOCATION_ID
and sc.PRODUCT_ID=iv.PRODUCT_ID
where iv.QUANTITY<sc.quantity
and o.DELIVERY_PICKUP='Delivery';</pre>
```

	♦ CUST_ID	♦ PRODUCT_ID	♦ ORDER_ID	Nearest Store	Quantity at nearest store	Quantity ordered
1	70029	2010654	01008	ST001	10	15

Thank you