ABC Game Store Database Project

BA 574-400 Data Management Winter 2021

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Introduction: ABC Game Store Business

ABC Current Situation

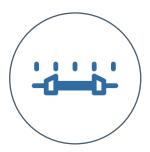
- ABC Game Store Meaning: Has every console games from A, B, C and so on



Founded a year and half ago



Official partner retailer



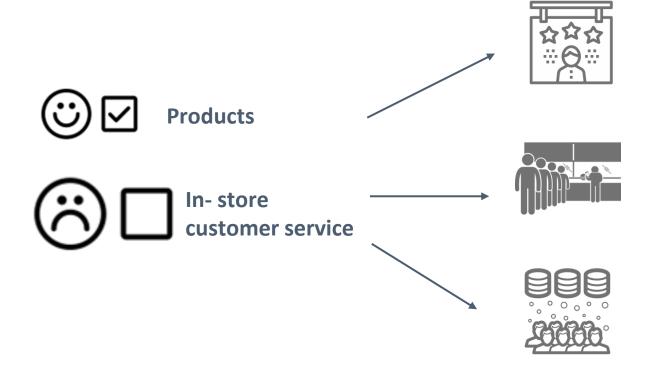
Wide range of games (genre, platform)



Increase in revenue, customers

Introduction: ABC Game Store Business

ABC Business Problem: Low customer satisfaction in store



Complaints about employee

- Inconsistent service
- Unfriendly attitude
- No system to rate employees

Long-check out time

No data to respond to customers' complaints

- No customer information
- No purchase, product records related to customers

Introduction: ABC Game Store Business

ABC Business Problem : Current spreadsheet

Customer	Invoice	Date	Total Amount	Game 1	Price 1	Quantity 1	Game 2	Price 2	Quantity 2
Customer 1	1212	1/23/2021	59.99	The Elder Scrolls V: Skyrim	59.99	1			
Customer 2	1213	1/23/2021	29.99	Rocket League	29.99	1			
Customer 3	1216	1/24/2021	9.99	Puzzles 101	9.99	1			
Customer 4	1214	1/24/2021	89.98	The Elder Scrolls V: Skyrim	59.99	1	Rocket League	29.99	1

Consist of date, total amount, product name, and price

Information Requirement: ABC Store

ABC Store Information Requirement



Problems occurring



Need information requirement to solve the problems

Information Requirement: ABC Store



Information to Solve the Problems

Information Requirements

"What game products did customers but the most and what is their preferences by gender or age?"

"Which game should the store recommend to customers?"

Outcome





Generate satisfactory answers for customers



Generate fast response for customers

Increase Customer Satisfaction In-Store

Information Requirement: ABC Store



Information to Solve the Problems

Information Requirements

"When is the peak time for customers and how many employees should be deployed in that time?"

"Which employees consistently responded to customers with poor performance and vice-versa?"

"Who are the low-rating employees that needs training?"

Outcome



- Reduce Long Check Out Time
- Increase Customer Satisfaction

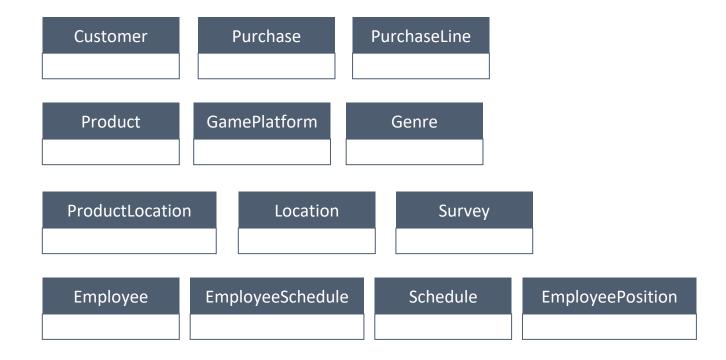


- Improve Complaints by Employee Rating System
- Improve Customer Service

Information Requirement & Design

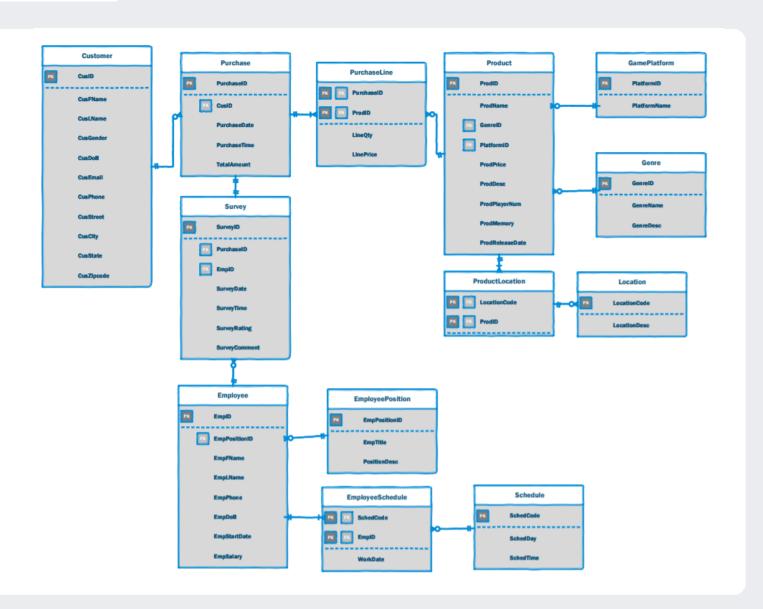


Collect data from following entities to generate information



Information Requirement & Design

ERD Design for ABC Game Store



Business Report 1 - Monthly Sales-Summary Report (For 1/1/2021 Thru 1/31/2021)

ProdID	ProdName	GenreID	Total Num of Purchase	TNP by Male	TNP by Female	TNP Under 30	TNP Over 30
12134	Rocket League	SP	3	2	1	3	0
13456	Rocket League	SP	3	2	1	2	1
1868	College	AD	2	1	1	1	1
1869	College II	AD	2	2	0	1	1
32145	Analyst II	RP	1	0	1	1	0
32146	Analyst III	RP	2	0	2	2	0
42785	Risk	ST	2	2	0	1	1
54674	Animal Crossing	AD	6	0	6	5	1
		•	•	•	•	•	•
		•				•	•
	Sum	26	12	14	21	5	

Business Report 1 - Required Tables

Product

- ProdID
- ProdName
- GenrelD
- PlatformID
- ProdPrice
- ProdDesc
- ProdPlayerNum
- ProdMemory
- ProdReleaseDate

Purchase

- PurchaseID
- CusID
- PurchaseDate
- PurchaseTime
- TotalAmount

PurchaseLine

- PurchaseID
- ProdID
- LineQty
- LinePrice

Customer

- CusID
- CusName
- CusGender
- CusDoB
- CusEmail
- CusPhone
- CusStreet
- CusCity
- CusState
- CusZipcode

Business Report 1 - Benefits of Monthly Summary Sales Report



Easy to decide Best -Seller games



Great to recommend games for customers



Better understanding of customers

Business Report 2 - Monthly Employee Review Report

Employee's Name	Num Of Survey	Num Of Comment	TraininRate	Phone
Issac, Thomas	6	4	2.2	5145925332
Wilfred, Miller	1	1	2	9626064994

Employee's Name	Num Of Survey	Num Of Comment	IncentiveRate	Current Salary
Elmer, Matthews	1	0	5	\$14.00
Lorenzo, Allison	1	1	5	\$15.00
Virginia, Hart	1	1	4.5	\$13.25

Business Report 2 - Required Tables

Employee

- EmpID
- EmpPositionID
- EmpFName
- EmpLName
- EmpPhone
- EmpDoB
- EmpStartDate
- EmpSalary

Survey

- SurveyID
- PurchaseID
- EmpID
- SurveyDate
- SurveyTime
- SurveyRating
- SurveyComment

Business Report 2 - Benefits of Monthly Employee Review Report



Easy to review employees' work and react based on different purpose



Able to improve the service quality



Able to respond to customers' feedback

Business Report 3 - Daily Transaction and Peak Time Report

Code	Time	Number of Transactions	Number of Employees Working
SA01	9:00 -11:00	1	4
SA02	11:00 - 13:00	4	1
SA03	13:00 - 16:00	0	1
SA04	16:00 - 19:00	0	1

Business Report 3 - Required Tables

Purchase

- PurchaseID
- CusID
- PurchaseDate
- PurchaseTime
- TotalAmount

Survey

- SurveyID
- PurchaseID
- EmplD
- SurveyDate
- SurveyTime
- SurveyRating
- SurveyComment

Business Report 3 - Daily Transaction and Peak Time Report





Identify the shift and make decision whether to schedule more employees or not

Identify unusual patterns

Conclusion



Better customer service



Increase Revenue
(Source: Harvard Business Review)

Reference



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Thank You Group 2