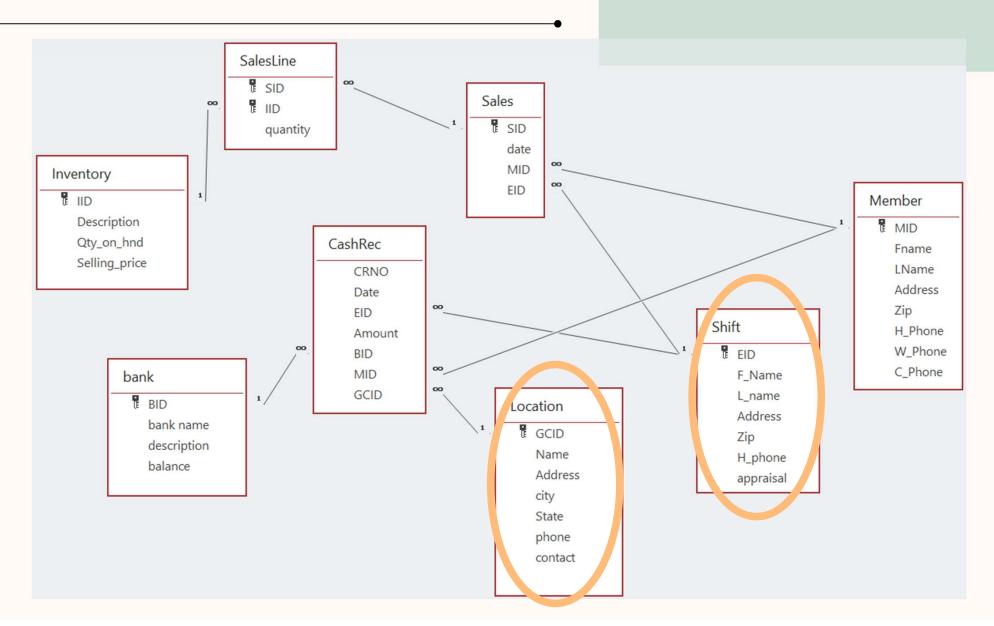
The Lemonade Stand - DBMS Project

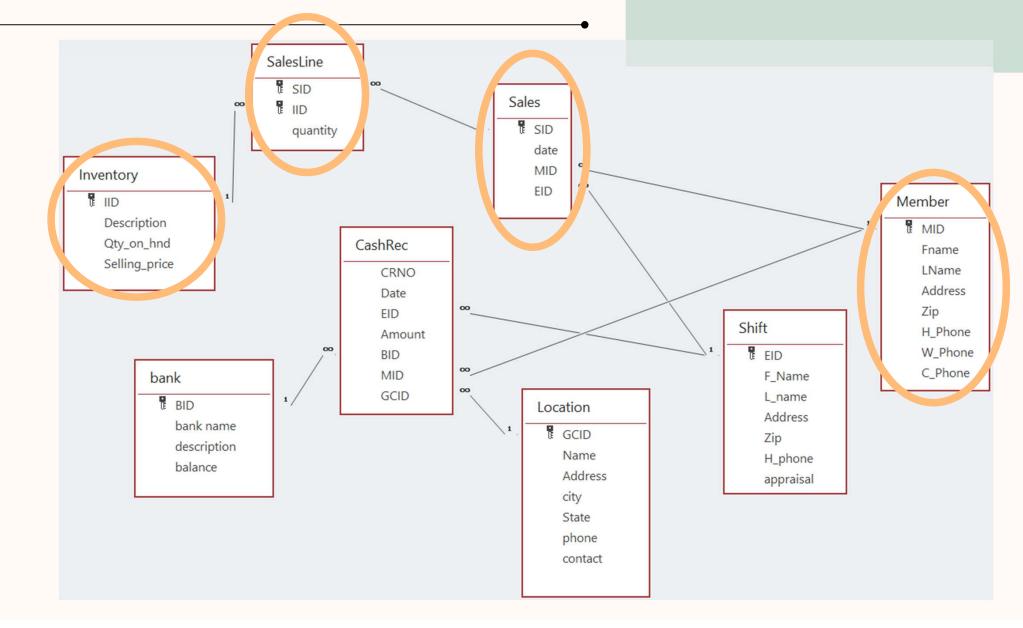
Group 1 - K007, K035, K047, K070

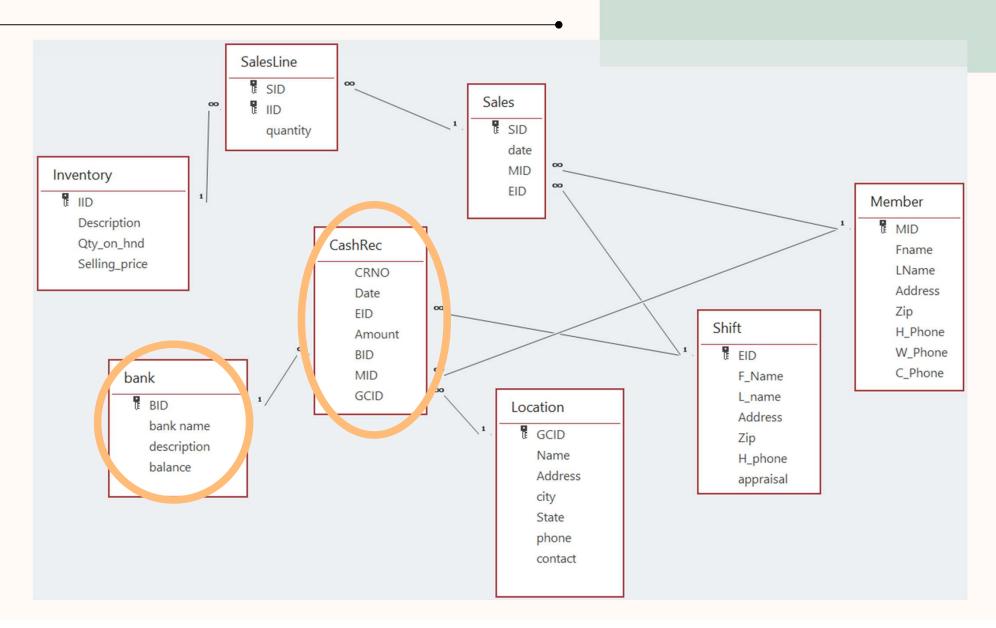
Business Scenario Overview

- Small lemonade stand run by **two children** started this business to earn some extra money over the summer, in June, July, and August.
- Agreement with the golf course to provide electricity and water in exchange for a rental fee of 5% of the sales.
- Both children working as employees being paid a daily wage of \$75.



voice Number nift ID	3	Date		6-1-20	013
ember ID	1	Member Name		Paul Mickelson	
ems Purchased					
∠ Inventory ID →	Description	•	Quantity -	Selling price -	Extended Price -
	lemon		2	₹2.00	₹4.00
	blueberry		1	₹ 2.00	₹ 2.00
*					
Record: I◀ ◀ 1 of 2	▶ ▶I ▶※ ▼ No Filter	Search			
				Invoice Total	₹ 6.00





Performance Analysis

- How good are sales and cash receipts for 2013?
- Is the lemonade stand doing a good job collecting cash on their sales? Why is this an issue the lemonade stand needs to think about?
- Which lemonade flavors should the lemonade stand focus on in the future? Are there some flavors that maybe they shouldn't sell anymore?
- Which employees appear to generate the most sales? What about the least sales?
- What is the effect of weather on sales? How does understanding the effect of weather on sales improve our understanding of the business?
- Who are the lemonade stand's best customers? Who are the worst customers? How should the lemonade stand use this knowledge?
- Can you think of any IT security or control risks that exist in the database or the sales process? Would there be ways for employees to steal inventory using the database for example?

receipts for 2013

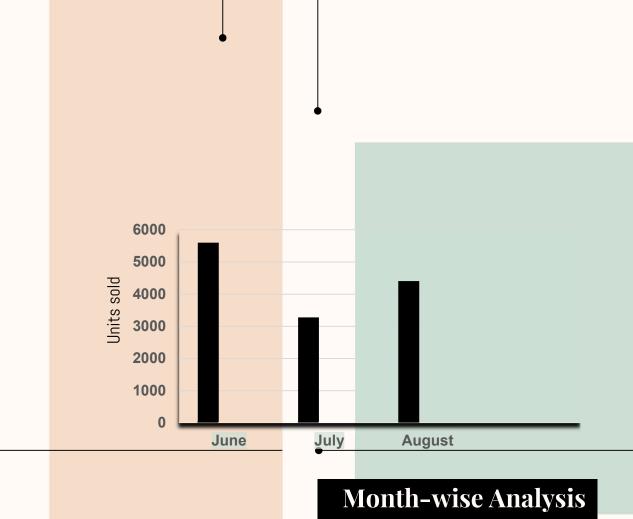
Total Sales in 2013

Quantity - 5265 units

Amount - \$ 13,283.00

Total Cash Receipts for 2013

\$ 13,123.00



² - Cash Collection

Total Sales in 2013

\$ 13,283.00

Total Cash Receipts for 2013

\$ 13,123.00

Problem?

- Payment defaulters
 - Computation of profits and losses
 - Rent payment

- Profits and losses could be computed on the basis of cash receipts
- Defaulter reports could be another report sent to the management
- Defaulters could be fined (new table needed)

Solutions

³ - Flavour Analysis

Focus more

Lemon

May get rid of

Strawberry

Flavour-wise Sales Analysis

Description	Quantity Sold	Amount
Lemon	8334	\$ 16,668.00
Cherry	3025	\$ 9,075.00
Strawberry Banana	972	\$ 3,888.00
Fuzzy Navel	692	\$ 3,460.00
Green Apple	1301	\$ 2,602.00
Peach	1133	\$ 2,266.00
Blueberry	915	\$ 1,830.00
Orange Pineapple	300	\$ 1,500.00
Kiwi	498	\$ 1,494.00
Lemon Lime	692	\$ 1,384.00
Grape	394	\$ 1,182.00
Peppermint	291	\$ 1,164.00
Watermelon	300	\$ 900.00
Blackberry	212	\$ 424.00
Red Raspberry	100	\$ 400.00
Orange	96	\$ 384.00
Strawberry	48	\$ 96.00

4-Employee Analysis

Generate Most Sales

Chris Smiley

Generate Least Sales

Joe Teenager

Total Sales Units and Amount

٨	lame	Quantity Sold	Total Sales Amount
_ C	Chris Smiley	7493	\$ 18,912.00
J	loe Teenager	3698	\$ 9,327.00
	Both Joe and Chris	8112	\$ 20,478.00
t	ogether		

5-Effect of Weather on the Business

Effect of S-S

(The average sky cover between sunrise and sunset in tenths of sky covered)

MAXIMUM INVERSE RELATION WITH SALES

S-S ↑SALES ↓

Effect of Temperature

(The highest temperature for the day)

MAXIMUM DIRECT RELATION
WITH SALES

MAXTEMP T SALES

What could we do?

If a **hotter** day is forecasted:

- Stock up more
- Could increase the prices of the more popular products by a very meagre amount

If a cloudier day is forecasted:

Could try to provide more attractive discounts

	Price	S-S	MaxSPD	AvgSPD	WTR	DEP	MINTemp	MAXTEMP	AVGTemp
Price	1.00								
S-S	-0.77	1.00							
MaxSPD	-0.11	0.17	1.00						
AvgSPD	-0.09	0.03	0.33	1.00					
WTR	-0.25	0.33	0.37	-0.02	1.00				
DEP	0.30	-0.26	0.12	-0.25	-0.02	1.00			
MINTemp	0.06	0.04	0.07	-0.18	0.00	0.72	1.00		
MAXTEMP	0.45	-0.46	0.08	-0.27	-0.10	0.83	0.57	1.00	
AVGTemp	0.31	-0.27	0.09	-0.26	-0.06	0.88	0.85	0.91	1.00

⁶-Customer Analysis

Best Customers

Rick Gossen (Member ID 16)

Pat Lawrie (Member ID 38)

Jean Leonard (Member ID 36)

- Provide them with discounts and perks so that they may spread a good word about us

Worst Customers

108 customers with no purchases

- Product samples
- We could also try to provide them with the product at discounted rates

Payment defaulters

Penalize them in some way (maybe a small fine for the late payment)

7-Security/Control Risks

Employees' Wage Computation

Employee Access to Members' Personal Details

Employees' Access to the Inventory

No 'Golf Course' Specified in tables other than Cash Receipts

Thanks!

Questions?