



# CS 3100 Final Presentation




John Rees & Emily McMahon





# Current Problems

- **Time**
    - Paper printouts
    - Manual data entry
  - **Federal**
    - Confidentiality Issues
  - **Verification**
    - Student Identification
    - One meal per student
  - **Record Keeping**
    - Transactions
    - Inaccuracies
- 

# Solutions

- **Database**
  - CSV - Student Info
  - Load into Database
- **Cards**
  - Student Picture ID
  - Swipe System for Cafeteria
  - Daily Data Pulls

# Advantages

- **Time**
  - Self-Updating Database - Hours Saved!!
- **Accuracy**
  - No Daily Inputs - less chance for errors
- **Monetary Savings**
- **Confidentiality**

# Disadvantages

- **Teething**
  - Creating A New Database
  - Create a .CSV to Upload Originally
  - Server Space and Proper Licensing - A Cost
- **Upkeep**
  - .CSV Updates
    - New Students & Departing Students
  - Train Faculty w/ Specialist

# Nifty Reports - Transactions

TransactionID	ParentID	StudentID	Date	Time	MealStatus	AmountPaid	PaymentID	MealID
1001003	100111	000111	05/Dec/2019	11:00	Free	0.00	Null	33333
1001004	100111	000111	06/Dec/2019	11:00	Free	0.00	Null	33333
1001005	100112	000112	05/Dec/2019	11:00	Free	0.00	Null	11111
1001006	100112	000112	06/Dec/2019	11:00	Free	0.00	Null	11111
1001007	100113	000113	05/Dec/2019	11:00	Reduced	0.40	400000	22222
1001008	100113	000113	06/Dec/2019	11:00	Reduced	0.00	Null	22222
1001009	100114	000114	05/Dec/2019	11:00	Reduced	0.40	400001	44444
1001010	100114	000114	06/Dec/2019	11:00	Reduced	0.40		
1001011	100115	000115	05/Dec/2019	11:00	Paid	3.00		
1001012	100115	000115	06/Dec/2019	11:00	Paid	3.00		
1001013	100116	000116	05/Dec/2019	11:00	Paid	3.00		
1001014	100116	000116	06/Dec/2019	11:00	Paid	0.00		
Null	Null	Null	Null	Null	Null	Null		

```
43
44 • SELECT
45     count(TransactionID) AS 'MealsServed',
46     (count(TransactionID) * '3.00') AS 'DailyMealCost'
47 FROM Daily_Transactions
48 GROUP BY Date;
```

```
51 • CREATE TABLE TotalFreeMeals (
```





result Grid | Filter Rows: | Export: | Wrap Cell Center

MealsServed	DailyMealCost
6	18
6	18

# Nifty Reports - Balances

```
253 • SELECT
254     StudentID,
255     CONCAT(StudentFirstName, ', ', StudentLastName) AS 'Name',
256     TotalCharges AS 'TotalOwed',
257     TotalPayments AS 'TotalPaid',
258     SUM(TotalCharges - TotalPayments) AS 'AmountStudentOwes'
259 FROM Balances
260 GROUP BY StudentID;
```

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Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 

	StudentID	Name	TotalOwed	TotalPaid	AmountStudentOwes
▶	000111	David, Tennant	0.00	0.00	0.00
	000112	Matt, Smith	0.00	0.00	0.00
	000113	Christopher, Eccleston	0.80	0.40	0.40
	000114	Peter, Capaldi	0.80	0.80	0.00
	000115	Tom, Baker	6.00	6.00	0.00
	000116	Sylvester, McCoy	6.00	3.00	3.00

# Procedures

## Student Contact Information

```
278
279 • CALL StudentParentContacts(000111);
280
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

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	StudentID	StudentName	Grade	ParentID	ParentName	ContactNumber
▶	000111	Tennant, David	10	100111	Tennant, Michael	314-325-4679

## Student Balances

```
298
299 • CALL StudentBalances(000114);
300
```

Result Grid								Filter Rows:	Export:	Wrap Cell Content:
	StudentID	StudentName	Grade	ParentID	TotalOwed	TotalPaid	AmountStudentOwes			
▶	000114	Capaldi, Peter	12	100114	0.80	0.80	0.00			



# Procedures

## Student Payments

320

321 • **CALL** StudentPayments(000114);



Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	StudentID	StudentName	PaymentID	DatePaid	PaymentType	AmountPaid	ProcessedBy	Notes	ParentID
▶	000114	Capaldi, Peter	400001	05/Dec/2019	Cash	0.40	Register	Paid in Full at Register	100114
	000114	Capaldi, Peter	400002	06/Dec/2019	Cash	0.40	Register	Paid in Full at Register	100114