

Data Mining

What does it mean and how can we use it?

- **Data Mining** – is the ability to extract data from one or more databases.
- **Decision-Makers** – can then use the data to make more informed decisions.
- **How can data mining** - help avoid or reduce surveyors' costly citations?

Data Mining (continued):

1. By being able to produce real time printed reports requested by surveyors on:
 - Certifications.
 - In-Service Training.
 - CEU Training.
 - Nurses' Notes.

Data Mining (continued):

- Medication Records.
- Therapy Notes.
- Care Plans.
- Dietary Records.

2. Providing surveyors with the facility's **procedures** and **protocols** on data integrity.

Data Mining (continued):

How can data mining - help reduce labor costs?

1. Payroll overtime reduction.
2. Quarterly Nursing Staff Report.
3. Releasing employees – provides documentation that payroll and health benefits are canceled.

Data Mining (continued):

1. **Bi-weekly - Scheduling.**
 - a. **Scheduled Overtime Cost Report**

Just Lee Convalescent Center
Scheduled Overtime Cost Report
08/02/2004 to 08/15/2004

Department	Employee	Shift	Overtime	
			Hours	Cost
Dietary	Berns, Joyce	03:30 pm - 07:30 pm	12.00	153.90
	Newhouse, Jacqueline	01:00 pm - 07:30 pm	9.50	159.60
Dietary Sub-Total:			21.50	313.50
Nursing	Adeb, Beth	02:00 pm - 10:00 pm	24.00	361.80
	Carroll, Chasity	06:00 am - 02:00 pm	8.00	143.40
	Henry, Troy	02:00 pm - 10:00 pm	24.00	361.80
	Kost, Annette	07:00 am - 07:00 pm	8.00	234.60
	Larson, Andrea	06:00 am - 02:00 pm	12.00	342.90
	Mills, Amanda	05:00 am - 10:00 pm	9.00	304.43
	Quiroga, Jessica	02:00 pm - 10:00 pm	16.00	229.20
Nursing Sub-Total:			101.00	1978.13
Grand Total:			122.50	2291.63

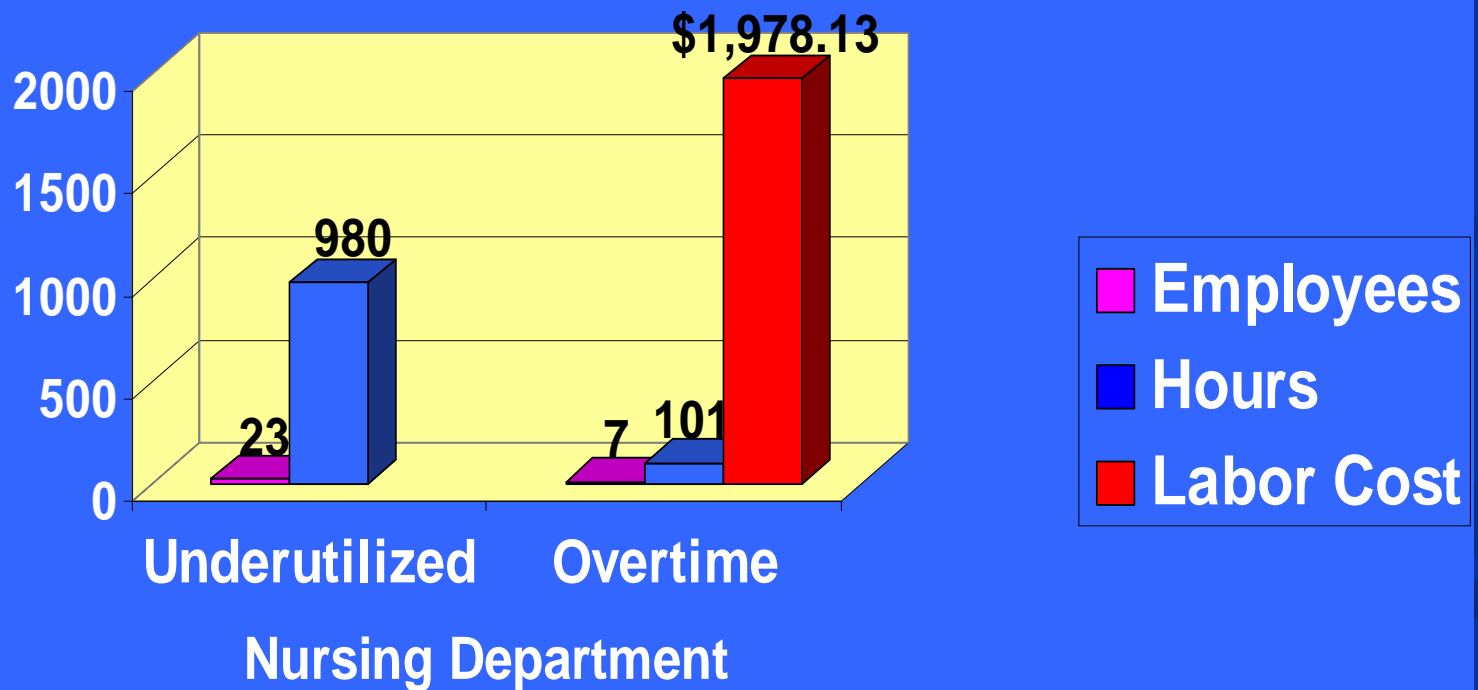
Data Mining (continued):

b. Scheduled Underutilized Report

Just Lee Convalescent Center
Scheduled Underutilized Report
08/02/2004 to 08/15/2004

Department	Employee	Scheduled Hours	Hours Available	OT Hours
Activities				
	Dowd, Danielle	72.00	8.00	0.00
	Everett, Constance	0.00	80.00	0.00
	Everts, Deborah	63.00	17.00	0.00
	Judge, Willie	0.00	80.00	0.00
	Kemp, Bernice	72.00	8.00	0.00
Administrative Offices				
	Freund, Debra	80.00	0.00	0.00
Dietary				
	Berns, Heather	32.00	48.00	0.00
	Berns, Marilyn	80.00	0.00	0.00
	Carr, Ramon	0.00	80.00	0.00
	Moore, Frances	80.00	0.00	0.00
	Morrill, Glinda	0.00	80.00	0.00
	Newell, Irene	79.00	1.00	0.00

Scheduled Underutilized Report & Scheduled Overtime Cost Report For The Next Pay Period



Data Mining (continued):

2. Quarterly Nursing Staff Report.

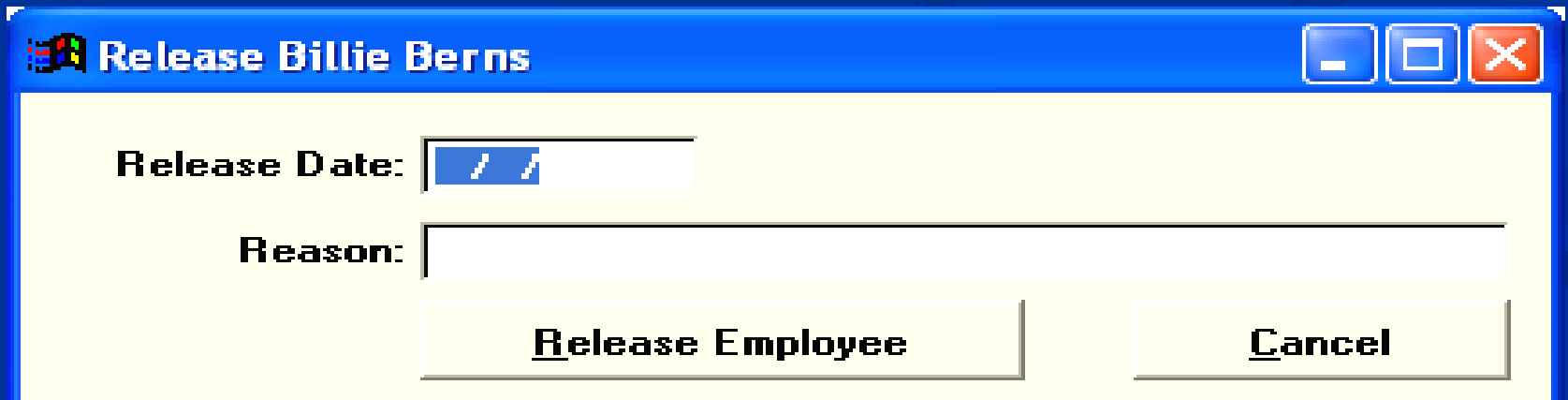
Software is available to calculate and print this report in less than two minutes.

Michigan Department of Consumer and Industry Services Division of Operations							
NURSING CARE FACILITY QUARTERLY NURSING STAFF REPORT 4th QUARTER REPORT - CALENDAR YEAR 2004							
Facility ID: 11-44444							
DAY & DATE	MONDAY 11/15/2004	TUESDAY 11/16/2004	WEDNESDAY 11/17/2004	THURSDAY 11/18/2004	FRIDAY 11/19/2004	SATURDAY 11/20/2004	SUNDAY 11/21/2004
CENSUS	51	51	51	51	51	51	50
DIRECTOR OF NURSES (DON)							

TOTAL HOURS WORKED PROVIDING DIRECT PATIENT CARE																		
	MORNING SHIFT						AFTERNOON SHIFT						NIGHT SHIFT					
	RNs IN- HOUSE	RNs POOL STAFF	LPNs IN- HOUSE	LPNs POOL STAFF	AIDES/ ORDS IN- HOUSE	AIDES/ ORDS POOL STAFF	RNs IN- HOUSE	RNs POOL STAFF	LPNs IN- HOUSE	LPNs POOL STAFF	AIDES/ ORDS IN- HOUSE	AIDES/ ORDS POOL STAFF	RNs IN- HOUSE	RNs POOL STAFF	LPNs IN- HOUSE	LPNs POOL STAFF	AIDES/ ORDS IN- HOUSE	AIDES/ ORDS POOL STAFF
HOLIDAY 11/15/2004	8.0	0.0	8.5	0.0	53.5	0.0	0.5	0.0	16.0	0.0	40.5	0.0	0.0	0.0	8.5	0.0	24.0	0.0
TUESDAY 11/16/2004	8.0	0.0	9.0	0.0	69.0	0.0	0.5	0.0	16.0	0.0	35.5	0.0	0.0	0.0	9.0	0.0	23.0	0.0
WEDNESDAY 11/17/2004	0.0	0.0	16.5	0.0	63.5	0.0	8.0	0.0	9.0	0.0	43.5	0.0	0.5	0.0	8.0	0.0	23.0	0.0
THURSDAY 11/18/2004	0.0	0.0	16.5	0.0	61.0	0.0	8.0	0.0	9.0	0.0	43.0	0.0	0.5	0.0	8.0	0.0	16.0	8.0
FRIDAY 11/19/2004	2.0	0.0	10.0	0.0	60.0	0.0	8.0	0.0	8.5	0.0	35.5	0.0	1.0	0.0	8.5	0.0	24.0	0.0
SATURDAY 11/20/2004	0.0	0.0	0.5	8.0	55.5	0.0	8.0	0.0	8.0	0.0	30.0	0.0	0.0	0.0	8.0	0.0	15.0	0.0
SUNDAY 11/21/2004	8.0	0.0	8.5	0.0	39.5	0.0	0.5	0.0	16.0	0.0	24.0	0.0	0.0	0.0	8.5	0.0	23.0	0.0

Data Mining (continued):

3. Releasing employees – e-mail alerts can be sent to a county's HR department when employees are released from its county MCF. **This function would have saved one county \$250, 000.**



The screenshot shows a Windows-style dialog box with a blue title bar. The title bar contains a small icon on the left and three window control buttons (minimize, maximize, close) on the right. The main area of the dialog is white and contains the following elements:

- Release Date:** A text label followed by a date input field containing two slashes (//).
- Reason:** A text label followed by a large, empty text input area.
- Buttons:** Two buttons at the bottom: "Release Employee" and "Cancel".

Additional Data Mining Reports

- **Employee Information**
- **Employee Schedule**
- **Employee Cancellation Report**
- **Employee Vacation and Sick Balances**
- **Employee Birthdays**
- **Employee Hire Dates**

Additional Data Mining Reports (continued):

- **Resident Information**
- **Resident Birthdays**
- **Resident Entered Dates**
- **Resident Nurses' Notes and Doctors' Orders**
- **Resident Medication Documentation**
- **Resident Care Plan**

Additional Data Mining Reports (continued):

- **Resident Dietary Orders**
- **Resident Therapy Medicare A and B Documentation**