



# PROJECT : DATA ANALYSER

AMIRA GAMAL  
MAHMOOD HEGAZY  
NOURHAN RAMADAN  
YOUSSEF GHALY

# AGENDA

## 1. PROBLEM

## 2. SOLUTION

1. CASE
2. DANALYZER

## 3. IMPLENTATION

1. Revealing & Updating
2. Reports
3. Functions
4. UI



# INTRODUCTION

C.A.T : Computer Analytic Technologies inc.

- What we do : Solve our customers' most important business challenges by providing solutions to their software needs

# PROBLEM : CASE

- Client Needs :
  - Production Data Management
  - Production Data Reporting
- Excel sheets are widely used among owner companies
  - Friendly UI
  - Easy to generate functions and reports
- Excel Drawbacks



# SOLUTION : DBMS

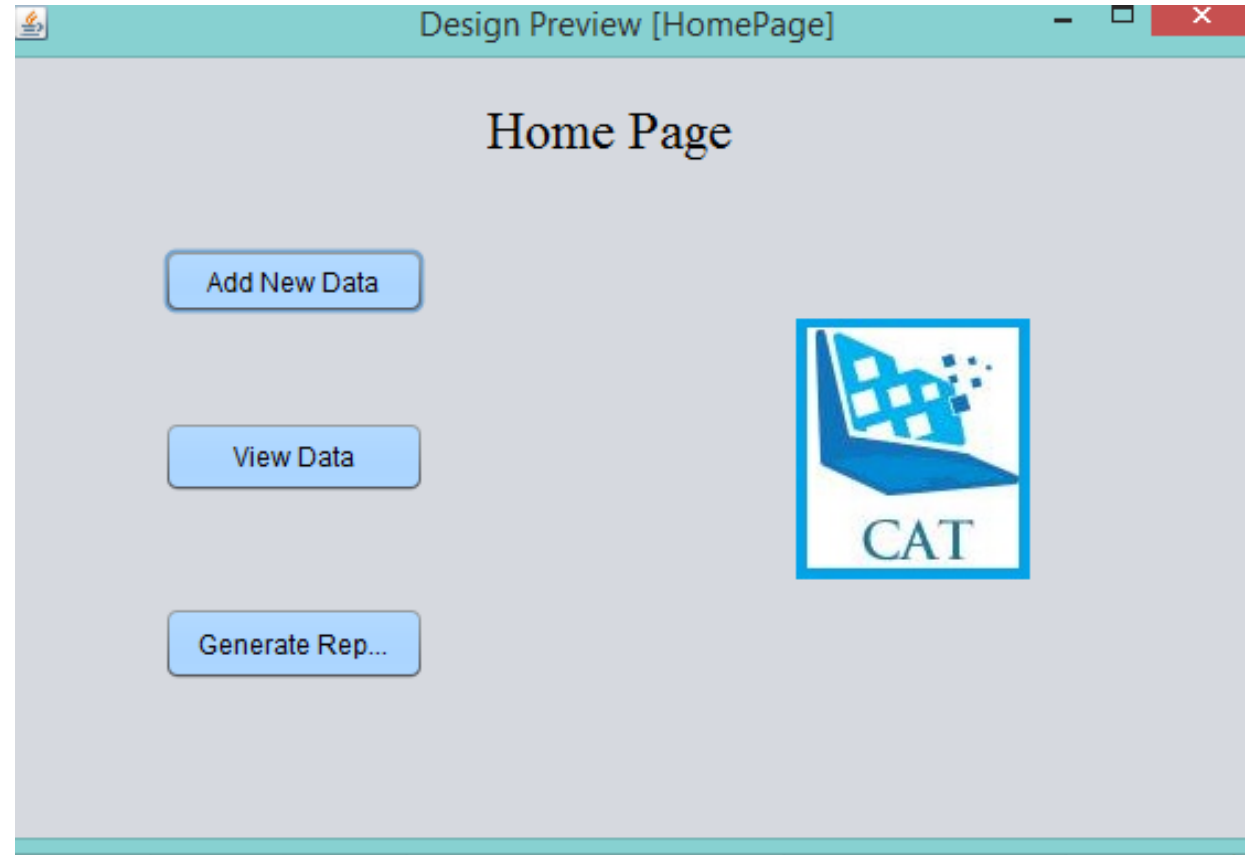
- Advantages of using Database Management Systems
  - Unlimited Storage
  - Security
  - Centralized data
  - Easily backed up & recovered

# SOLUTION : DANALYZER

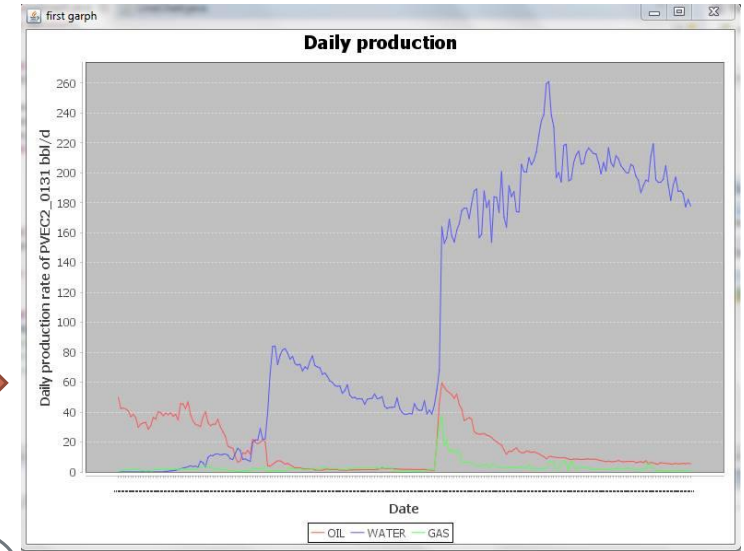
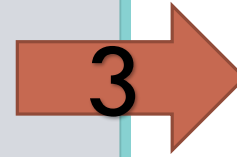
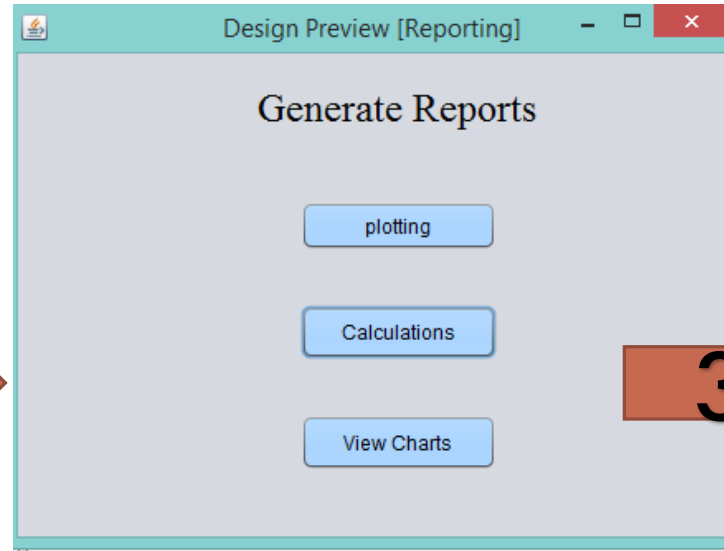
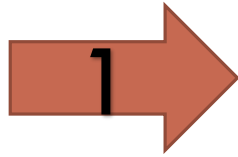
- Advantage of Excel over a DBMS
- Fully customized application that uses database management systems to retrieve, edit and analyze data
- DAnalyzer :
  - Excel equivalent functionality
  - Intuitive UI
  - No learning Curve



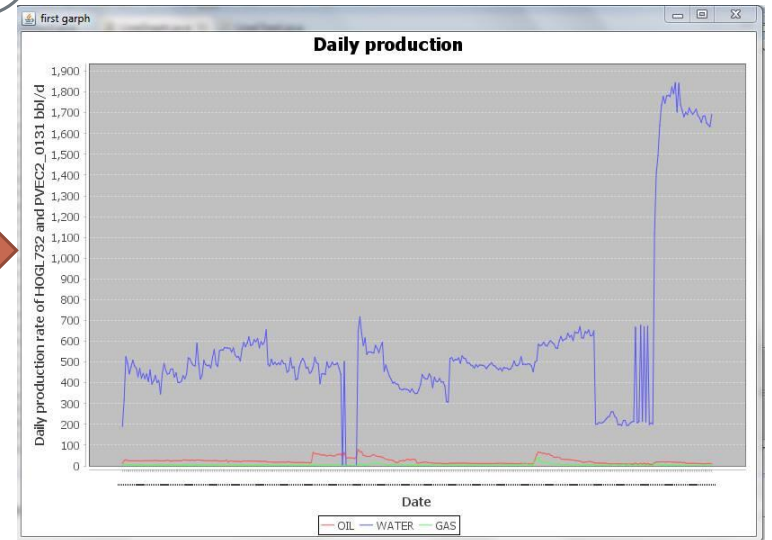
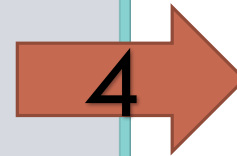
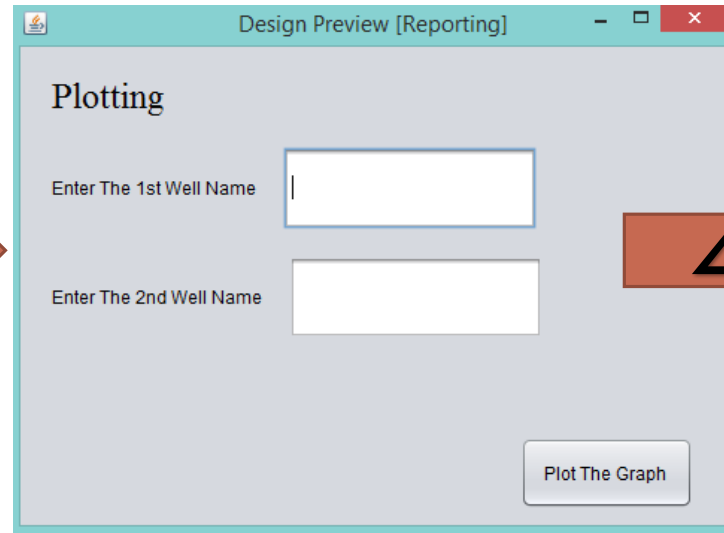
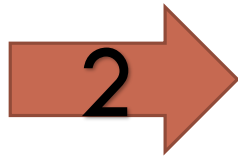
# UI : HOME



# UI : REPORTS



OR





# UI : VIEW & CREATE

Design Preview [ViewData]

xy

Choose Table

XY

PRD

SC

Design Preview [AddNewData]

sc

Sorting Categories

Filed Name

Pool

Status

Field Geopmetry

Operator

Submit

AVI2_0532	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL1032	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL1132	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL1232	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL232	VERTICAL	PROVO-EAST	BLM B	HOGL	WINJ	III	null
HOGL2_0132	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL2_0232	VERTICAL	PROVO-EAST	BLM B	HOGL	WINJ	IVB	null
HOGL2_0332	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL2_0433	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL2_0932	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL2_1029	DEVIATED	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL2_1129	DEVIATED	PROVO-EAST	BLM A	HOGL	OIL	IVB	TB0539
HOGL2_1232	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL2_1429	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL2_1529	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL332	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL3_0132	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL3_0432	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL3_0532	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	IC	TB0539
HOGL3_0732	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL3_0832	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL3_1029	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL3_1032	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	IVA	TB0539
HOGL3_1129	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL3_1132	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL3_1329	DEVIATED	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL3_1332	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL3_1429	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL3_1432	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL432	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL4_0332	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL4_0432	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL4_0832	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL4_1032	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL4_1132	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	IVA	TB0539
HOGL4_1232	VERTICAL	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL4_1429	VERTICAL	PROVO-EAST	BLM A	HOGL	OIL	III	TB0539
HOGL4_1529	DEVIATED	PROVO-EAST	BLM A	HOGL	OIL	II	TB0539
HOGL4_1629	DEVIATED	PROVO-EAST	BLM B	HOGL	OIL	III	TB0539
HOGL532	VERTICAL	PROVO-EAST	BLM A	HOGL	WINJ	III	null

# DEMO



# IMPLEMENTATION : RETRIEVEL & UPDATING

- Input
- A Class for each table
- Setters and getters for each table (JavaBean classes)
- Retrieve Data
- Enter New Data
- Update existing rows

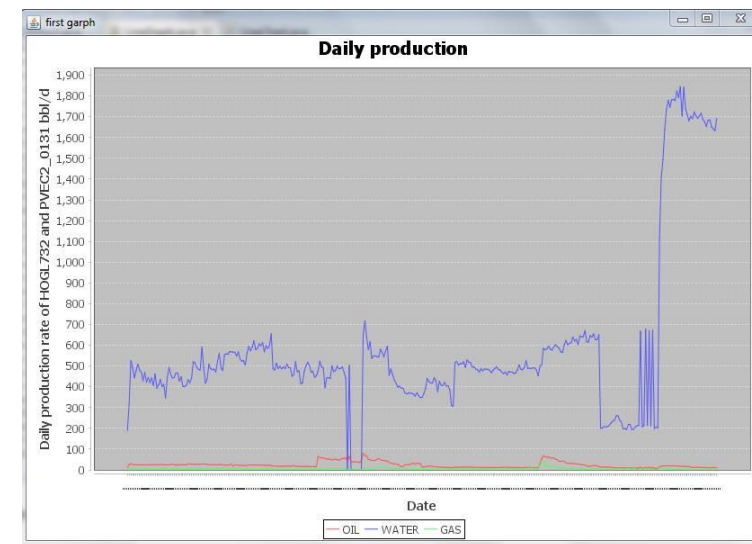
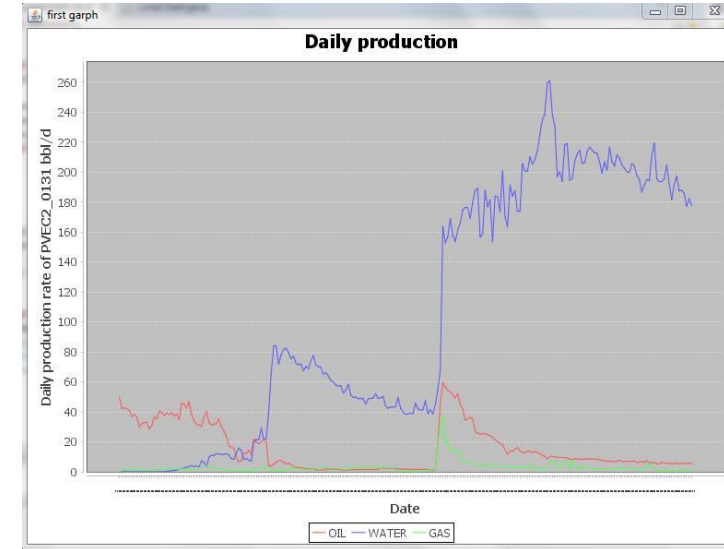
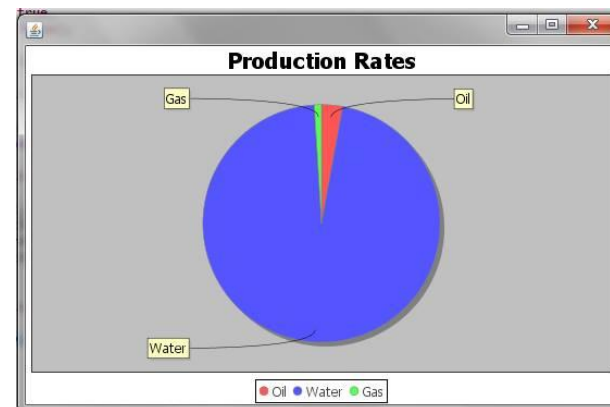
```

AVI2_0532 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL1032 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL1132 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL1232 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL232 VERTICAL PROVO-EAST BLM B HOGL WINJ III null
+OGL2_0132 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL2_0232 VERTICAL PROVO-EAST BLM B HOGL WINJ IVB null
+OGL2_0332 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL2_0433 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL2_0932 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL2_1029 DEVIATED PROVO-EAST BLM A HOGL OIL III TB0539
+OGL2_1129 DEVIATED PROVO-EAST BLM A HOGL OIL IVB TB0539
+OGL2_1232 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL2_1429 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL2_1529 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL332 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL3_0132 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL3_0432 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL3_0532 DEVIATED PROVO-EAST BLM B HOGL OIL IC TB0539
+OGL3_0732 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL3_0832 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL3_1029 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL3_1032 VERTICAL PROVO-EAST BLM B HOGL OIL IVA TB0539
+OGL3_1129 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL3_1132 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL3_1329 DEVIATED PROVO-EAST BLM A HOGL OIL III TB0539
+OGL3_1332 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL3_1429 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL3_1432 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL432 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL4_0332 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL4_0432 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL4_0832 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL4_1032 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL4_1132 DEVIATED PROVO-EAST BLM B HOGL OIL IVA TB0539
+OGL4_1232 VERTICAL PROVO-EAST BLM B HOGL OIL III TB0539
+OGL4_1429 VERTICAL PROVO-EAST BLM A HOGL OIL III TB0539
+OGL4_1529 DEVIATED PROVO-EAST BLM A HOGL OIL II TB0539
+OGL4_1629 DEVIATED PROVO-EAST BLM B HOGL OIL III TB0539
+OGL532 VERTICAL PROVO-EAST BLM A HOGL WINJ III null

```

# IMPLEMENTATION : REPORTS

- 3 types of reports retrieved :
  - Line plots
  - Pie charts
  - Analytical report
- JFreeChart



# IMPLEMENTATION : FUNCTIONS

- Production Rate
- Production Rate Daily
- Downtime
- Loss
- Price Loss
- Total Month Hours

```
Production rate (hourly): 114.85321619238476  
Production rate (daily): 2756.477188617235  
Downtime: 173.0  
Loss: 476870.5536307815  
Price loss: 1.9074822145231258E7
```

# ANY QUESTIONS ?



**THANK YOU**

