DATA MINING

MSBO Certification course
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Data Mining

- Session Agenda
  - *Sources of data*
  - *Data Mining tools/techniques*
  - *XML editors*
  - *Working with Access*
  - *Working with Excel*
- Questions

Data Mining

- Sources of Data
  - *Your SIS*
  - *CEPI submission downloads*
  - *MiSchoolData*
  - *Other sources*

Sources of Data

- Your SIS
  - *Details not captured any other place*
  - *Attendance details*
  - *Historical data*
  - *Discipline data not meeting reporting threshold*
  - *Other?*

Sources of Data

- CEPI Submission Downloads
  - *Files submitted and edited during submission process*
  - *NOT just submitted files*
  - *CEPI staging area*
  - *CEPI clears staging area annually*

Sources of Data

CEPI MSDS login

https://cepi.state.mi.us/msds/

Sources of Data

- MiSchoolData
  - *Site maintained by CEPI*
  - *Public AND Private data*
  - *Primarily summarized, charted data*

Sources of Data

MiSchoolData login

https://www.mischooldata.org/

Sources of Data

Other sources?

Data Mining Tools

- XML editors
  - *Best for opening, reviewing specific data*
  - *Not really data extraction tool*

XML Editors

- XML editors
  - *XML Notepad*
  - *Notepad ++*
    - Free applications
    - Simple interface

XML Editors

- XML editors
  - *XML Notepad*
  - *Notepad ++*

XML Editors

- XML Notepad
- Notepad ++
  - *CEPI Data Validation Guide*

http://www.michigan.gov/documents/cepi/XML_validation_guide_357832_7.pdf

XML Editors

(open sample file in XML Notepad)

Working with MS Access

MS Access

- Powerful database program
- Easy to create queries, reports
- Not included in all versions of MS Office
- Steeper learning curve that Excel

MS Access

(open sample file in MS Access)

Data Mining.accdb

MS Access

Tested: iif([*field being evaluated*]="*test condition*",1,0)

"Sum" in Total row

MS Access

Failcnt: iif([*comp status*]="*failed*",1,0)

"Sum" in Total row

Working with MS Excel

Excel

- Spreadsheet program
- Easy to use
- Pivot tables – Very powerful
- As powerful as Access, easier to use

MS Excel

(open sample file in Excel)

Data Mining.xlsx

Getting Help

- CEPI Helpdesk
  - *(517) 335-0505, Option 3*
  - *cepi@michigan.gov*
- MPAAA
  - *Rob@mpaaa.org*
  - *(517) 853-1413*