Data Quality Utilized by DHIS2

Pusat Data dan Informasi
Data Quality Concept 4C
What makes QUALITY Data?

- **Complete:**
  - Facility data has been submitted for each month (or for each quarter in the case of TB data)

- **Consistent:**
  - Similar to the value for other months

- **Correct:**
  - Value for one data element is similar to the value for a related data element (e.g. DPT 3 is about equal to Polio 3)

- **Current (Timeliness):**
  - Data submitted before the deadlines
### Completeness

<table>
<thead>
<tr>
<th>Health facility</th>
<th>Total Malaria Cases</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pkm. Kang o</td>
<td>84</td>
<td>24</td>
<td>22</td>
<td>20</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pkm. Mutemba</td>
<td>71</td>
<td>30</td>
<td>41</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pkm. Wala</td>
<td>82</td>
<td>19</td>
<td>21</td>
<td>20</td>
<td>14</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Pkm. Bara</td>
<td>74</td>
<td>18</td>
<td>12</td>
<td>14</td>
<td>11</td>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

- Which Puskesmas has the most malaria cases?
- Which puskesmas has the most complete data?
Completeness = Reporting rate (%)

<table>
<thead>
<tr>
<th>Reporting rate 1</th>
<th>Feb</th>
<th>March</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
</tr>
</thead>
<tbody>
<tr>
<td>District Hospital A</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>District Hospital B</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Community Health Centre A</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Community Health Centre B</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Community Health Centre C</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Community Health Centre D</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mobile Service A</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Mobile Service B</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
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</tr>
<tr>
<td>Mobile Service C</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mobile Service D</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Facilities reported</td>
<td>10</td>
<td>7</td>
<td>6</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Facilities expected to report</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Reporting rate</td>
<td>100</td>
<td>70</td>
<td>60</td>
<td>80</td>
<td>40</td>
</tr>
</tbody>
</table>
To see Reporting rate, select “Data sets” under DATA

1. At present, this only functions for “KOMDAT DATA SET BULANAN Immunization”
2. For 6 pilot districts, use the indicators “KOMDAT PKM reporting completeness – immunizations” and “KOMDAT PKM reporting completeness – maternal health services”
Consistency & Correctness
Choose this menu
Still Core

2017

Change Ka/Kota
Choose Outliers
<table>
<thead>
<tr>
<th>Unit</th>
<th>Data</th>
<th>Jan 17</th>
<th>Feb 17</th>
<th>Mar 17</th>
<th>Apr 17</th>
<th>May 17</th>
<th>Jun 17</th>
<th>Jul 17</th>
<th>Aug 17</th>
<th>Sep 17</th>
<th>Oct 17</th>
<th>Nov 17</th>
<th>Dec 17</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAB. MALANG</td>
<td>Jumlah Bayi Lahir Hidup (Live births reported monthly)_var2</td>
<td>37089.0</td>
<td>38494.0</td>
<td>37829.0</td>
<td>3796.0</td>
<td>3921.0</td>
<td>3864.0</td>
<td>3973.0</td>
<td>3355.0</td>
<td>2938.0</td>
<td>3354.0</td>
<td>3371.0</td>
<td>3322.0</td>
<td>131747.0</td>
</tr>
<tr>
<td>KAB. DELI SERDANG</td>
<td>Imunisasi DPT/3 (1) pada bayi usia 0-11 bulan_ver2</td>
<td>3561.0</td>
<td>3637.0</td>
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<td>3722.0</td>
<td>3770.0</td>
<td>3727.0</td>
<td>7842.0</td>
<td>7370.0</td>
<td>7259.0</td>
<td>7058.0</td>
<td>14827.0</td>
</tr>
<tr>
<td>KAB. DELI SERDANG</td>
<td>Imunisasi DPT/3 (2) pada bayi usia 0-11 bulan_ver2</td>
<td>3449.0</td>
<td>3507.0</td>
<td>3774.0</td>
<td>4262.0</td>
<td>3686.0</td>
<td>3796.0</td>
<td>3590.0</td>
<td>3538.0</td>
<td>7432.0</td>
<td>6722.0</td>
<td>6768.0</td>
<td>6996.0</td>
<td>13086.0</td>
</tr>
<tr>
<td>KAB. TULANG BAYANG BARAT</td>
<td>Jumlah Bayi Lahir Hidup (Live births reported monthly)_var2</td>
<td>440.0</td>
<td>440.0</td>
<td>392.0</td>
<td>420.0</td>
<td>430.0</td>
<td>441.0</td>
<td>440.0</td>
<td>444.0</td>
<td>4389.0</td>
<td>4358.0</td>
<td>424.0</td>
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<tr>
<td>KOTA</td>
<td>Kunjungan</td>
<td>4517.0</td>
<td>4823.0</td>
<td>4525.0</td>
<td>4831.0</td>
<td>4846.0</td>
<td>4845.0</td>
<td>4774.0</td>
<td>3892.0</td>
<td>2293.0</td>
<td>2080.0</td>
<td>1400.0</td>
<td>7839</td>
<td>7839.0</td>
</tr>
</tbody>
</table>

**Data**

- Core

**Period**

- Year: 2017
- Month: December

Data for 12 months up to and including the selected month will be used.
### Dashboard

#### Completeness

#### Consistency - time

#### Consistency - data

#### Outliers

### Result

**Display columns**
- All
- Missing data
- Outliers

**Include Z-score**
- Off

**Outlier filter**
- Standard Score
- Modified Z-Score

**Outliers**
- Moderate
- Extreme

### Data

- **Core**

### Period

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

Data for 12 months up to and including the selected month will be used.

### Organisation unit

- **INDONESIA**

- **Boundary**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Data Description</th>
<th>Jan 17</th>
<th>Feb 17</th>
<th>Mar 17</th>
<th>Apr 17</th>
<th>May 17</th>
<th>Jun 17</th>
<th>Jul 17</th>
<th>Aug 17</th>
<th>Sep 17</th>
<th>Oct 17</th>
<th>Nov 17</th>
<th>Dec 17</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAB. MALANG</td>
<td>Jumlah Bayi Lahir Hidup (Live births reported monthly)_ver2</td>
<td>37897.9</td>
<td>38497.9</td>
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<td>37682.9</td>
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<td>3177.9</td>
<td>3322.9</td>
<td>3117.47</td>
<td></td>
</tr>
<tr>
<td>KAB. DELI SERDANO</td>
<td>Imunisasi DPT/HE (1) pada bayi usia 0-11 bulan._ver2</td>
<td>3581.9</td>
<td>3533.9</td>
<td>3536.9</td>
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<td>3782.9</td>
<td>3722.9</td>
<td>3770.9</td>
<td>3727.9</td>
<td>7842.9</td>
<td>7370.9</td>
<td>7259.9</td>
<td>7058.9</td>
<td>14027.9</td>
</tr>
<tr>
<td>KAB. DELI SERDANO</td>
<td>Imunisasi DPT/HE (3) pada bayi usia 0-11 bulan._ver2</td>
<td>3449.9</td>
<td>3507.9</td>
<td>3774.9</td>
<td>4262.9</td>
<td>3688.9</td>
<td>3796.9</td>
<td>3500.9</td>
<td>3530.9</td>
<td>7432.9</td>
<td>6722.9</td>
<td>6768.9</td>
<td>8668.9</td>
<td>13088.9</td>
</tr>
</tbody>
</table>
### Dashboard

#### Result

**Display columns**
- All
- Missing data
- Outliers

**Include Z-score**
- Off

**Outlier filter**
- Off
- Standard Score
- Modified Z-Score

**Hierarchy**

<table>
<thead>
<tr>
<th>Provinsi</th>
<th>Unit</th>
<th>Data</th>
<th>Jan 17</th>
<th>Feb 17</th>
<th>Mar 17</th>
<th>Apr 17</th>
<th>May 17</th>
<th>Jun 17</th>
<th>Jul 17</th>
<th>Aug 17</th>
<th>Sep 17</th>
<th>Oct 17</th>
<th>Nov 17</th>
<th>Dec 17</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAB. MALANG</td>
<td>PKM SUMBER PUCUNG</td>
<td>Data</td>
<td>64.0</td>
<td>82.0</td>
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<td>804.0</td>
<td>804.0</td>
<td>804.0</td>
<td>0</td>
</tr>
<tr>
<td>KAB. MALANG</td>
<td>PKM LAWANG</td>
<td>Data</td>
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<td>139.0</td>
<td>226.0</td>
<td>514.0</td>
<td>162.0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Period**

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

Data for 12 months up to and including the selected month will be used.

**Organisation unit**

- INDONESIA

**Boundary**

- KAB. MALANG
- PKM SUMBER PUCUNG
- KAB. MALANG
- PKM LAWANG
thank you!