



1. A user can create many polls, but a poll is created by only one user
 - 1 user - Many polls
2. A poll must have a question, e.g., "Who do you support for President in 2016?"
 - 1 poll - 1 question
3. A poll has many responses, e.g., "Hillary Clinton", "Arnold Schwarzenegger", etc.
 - 1 poll - many response
4. A user can vote in any poll, but only once, and they can only select one response per poll
 - 1 user - 1 vote, 1 vote - 1 response

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<!-- SQL XML created by WWW SQL Designer, https://github.com/ondras/wwwsql designer/ -->
```

```
<!-- Active URL: http://ondras.zarovi.cz/sql/demo/ -->
```

```
<sql>
```

```
<datatypes db="mysql">
```

```
<group label="Numeric" color="rgb(238,238,170)">
```

```
<type label="Integer" length="0" sql="INTEGER" quote=""/>
```

```
<type label="TINYINT" length="0" sql="TINYINT" quote=""/>
```

```
<type label="SMALLINT" length="0" sql="SMALLINT" quote=""/>
```

```
<type label="MEDIUMINT" length="0" sql="MEDIUMINT" quote=""/>
```

```
<type label="INT" length="0" sql="INT" quote=""/>
```

```
<type label="BIGINT" length="0" sql="BIGINT" quote=""/>
```

```
<type label="Decimal" length="1" sql="DECIMAL" re="DEC" quote=""/>
```

```

        <type label="Single precision" length="0" sql="FLOAT" quote=""/>
        <type label="Double precision" length="0" sql="DOUBLE" re="DOUBLE"
quote=""/>
    </group>

```

```

<group label="Character" color="rgb(255,200,200)">
    <type label="Char" length="1" sql="CHAR" quote=""/>
    <type label="Varchar" length="1" sql="VARCHAR" quote=""/>
    <type label="Text" length="0" sql="MEDIUMTEXT" re="TEXT" quote=""/>
    <type label="Binary" length="1" sql="BINARY" quote=""/>
    <type label="Varbinary" length="1" sql="VARBINARY" quote=""/>
    <type label="BLOB" length="0" sql="BLOB" re="BLOB" quote=""/>
</group>

```

```

<group label="Date & Time" color="rgb(200,255,200)">
    <type label="Date" length="0" sql="DATE" quote=""/>
    <type label="Time" length="0" sql="TIME" quote=""/>
    <type label="Datetime" length="0" sql="DATETIME" quote=""/>
    <type label="Year" length="0" sql="YEAR" quote=""/>
    <type label="Timestamp" length="0" sql="TIMESTAMP" quote=""/>
</group>

```

```

<group label="Miscellaneous" color="rgb(200,200,255)">
    <type label="ENUM" length="1" sql="ENUM" quote=""/>
    <type label="SET" length="1" sql="SET" quote=""/>
    <type label="Bit" length="0" sql="bit" quote=""/>
</group>

```

```

</datatypes><table x="116" y="207" name="users">
<row name="id" null="1" autoincrement="1">
<datatype>INTEGER</datatype>
<default>NULL</default></row>
<key type="PRIMARY" name="">
<part>id</part>
</key>
</table>
<table x="406" y="241" name="polls">
<row name="id" null="1" autoincrement="1">
<datatype>INTEGER</datatype>
<default>NULL</default></row>
<row name="question" null="0" autoincrement="0">
<datatype>MEDIUMTEXT</datatype>

```

```

<default>'NOT NULL'</default></row>
<row name="user_id" null="1" autoincrement="0">
<datatype>INTEGER</datatype>
<default>NULL</default><relation table="users" row="id" />
</row>
<key type="PRIMARY" name="">
<part>id</part>
</key>
</table>
<table x="601" y="169" name="responses">
<row name="id" null="1" autoincrement="1">
<datatype>INTEGER</datatype>
<default>NULL</default></row>
<row name="poll_id" null="1" autoincrement="0">
<datatype>INTEGER</datatype>
<default>NULL</default><relation table="polls" row="id" />
</row>
<row name="string" null="1" autoincrement="0">
<datatype>MEDIUMTEXT</datatype>
<default>NULL</default></row>
<key type="PRIMARY" name="">
<part>id</part>
</key>
</table>
<table x="393" y="56" name="votes">
<row name="id" null="1" autoincrement="1">
<datatype>INTEGER</datatype>
<default>NULL</default></row>
<row name="user_id" null="1" autoincrement="0">
<datatype>INTEGER</datatype>
<default>NULL</default><relation table="users" row="id" />
</row>
<row name="response_id" null="1" autoincrement="0">
<datatype>INTEGER</datatype>
<default>NULL</default><relation table="responses" row="id" />
</row>
<key type="PRIMARY" name="">
<part>id</part>
</key>
</table>
</sql>

```