



Autodesk®
Topobase™

Archive – Technical Training

Autodesk Topobase Administrator



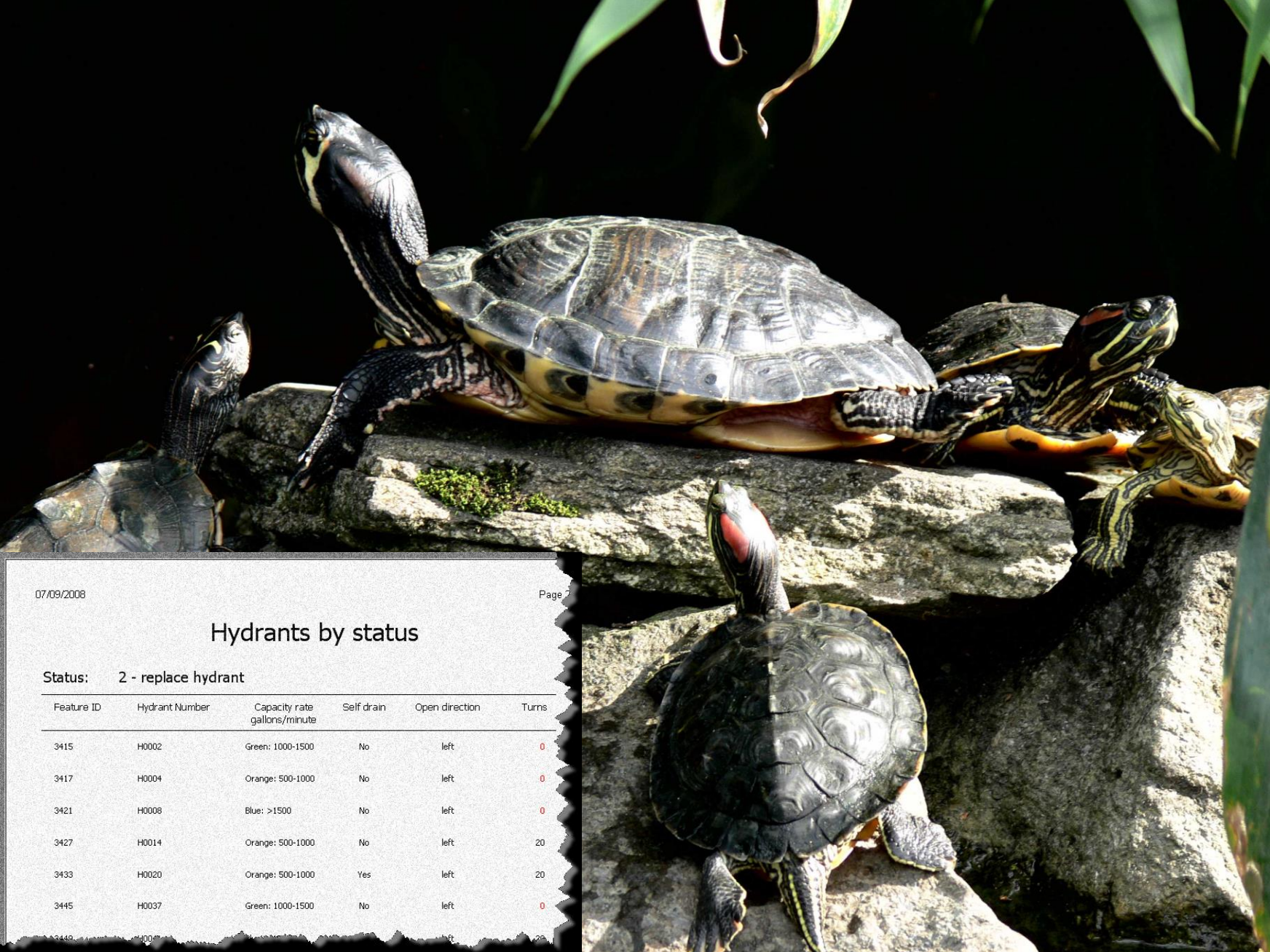
Autodesk®

Disclaimers

This course was created for Autodesk Topobase 2009. The contents of this course are not intended for other versions of Autodesk Topobase.

We may make statements regarding planned or future development efforts for our existing or new products and services. These statements are not intended to be a promise or guarantee of future delivery of products, services or features but merely reflect our current plans, which may change. Purchasing decisions should not be made based upon reliance on these statements.

The Company assumes no obligation to update these forward-looking statements to reflect events that occur or circumstances that exist or change after the date on which they were made.



07/09/2008

Page 2

Hydrants by status

Status: 2 - replace hydrant

Feature ID	Hydrant Number	Capacity rate gallons/minute	Self drain	Open direction	Turns
3415	H0002	Green: 1000-1500	No	left	0
3417	H0004	Orange: 500-1000	No	left	0
3421	H0008	Blue: >1500	No	left	0
3427	H0014	Orange: 500-1000	No	left	20
3433	H0020	Orange: 500-1000	Yes	left	20
3445	H0037	Green: 1000-1500	No	left	0
3449	H0040	Green: 1000-1500	No	left	20

Chapter Overview

- Chapter teaches how to use Autodesk Topobase 2008 to export project data in different formats:
 - Easily share data throughout your organization and beyond.
 - Even with people who don't have Topobase or AutoCAD Map 3D 2008.

Reports and Data Export

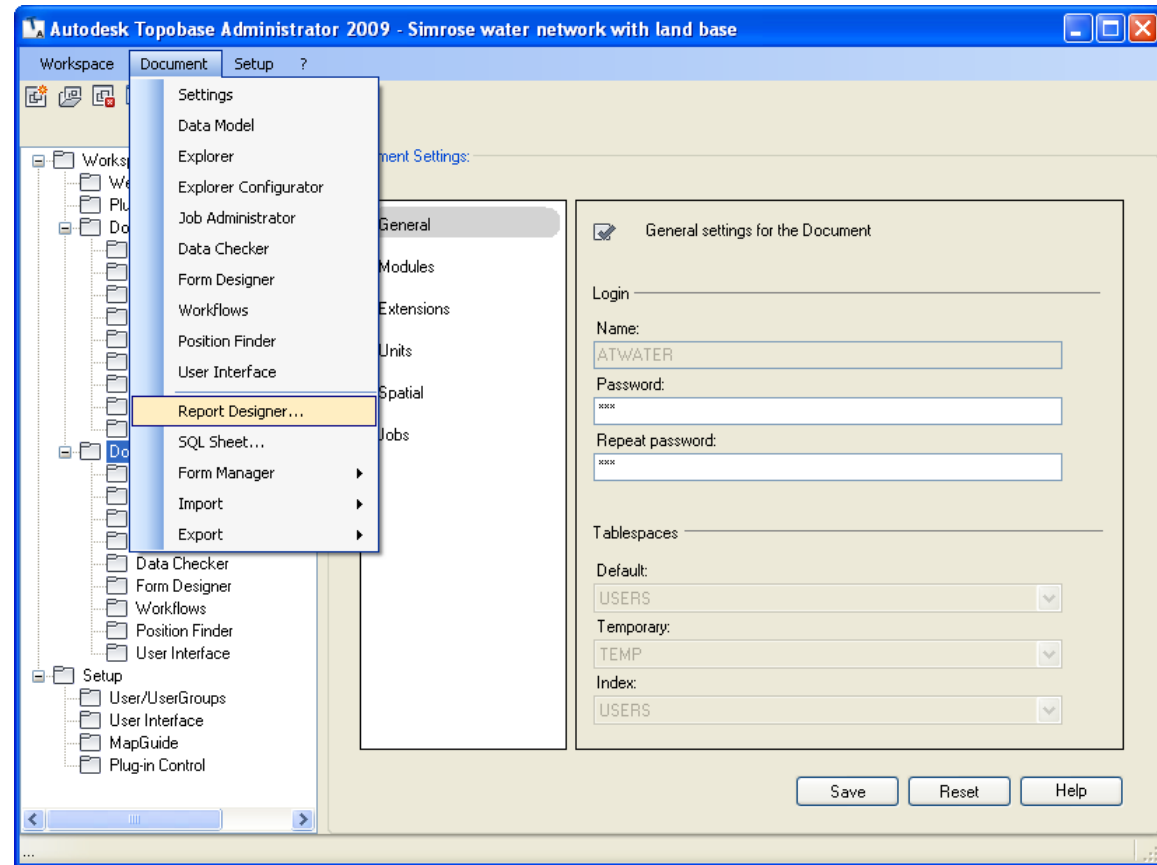
Chapter Objectives

By the end of this chapter, you will be able to:

- Explain how data can be distributed throughout an organization.
- Generate a report.
- Export a document.
- Export data to other formats.

8.2 Reports Designer

- Open the **Simrose water network with land base** workspace.
- Select Document – ATWATER in the Administrator tree explorer, select **Document** menu > **Report Designer....**



8.2.1 Creating a Report

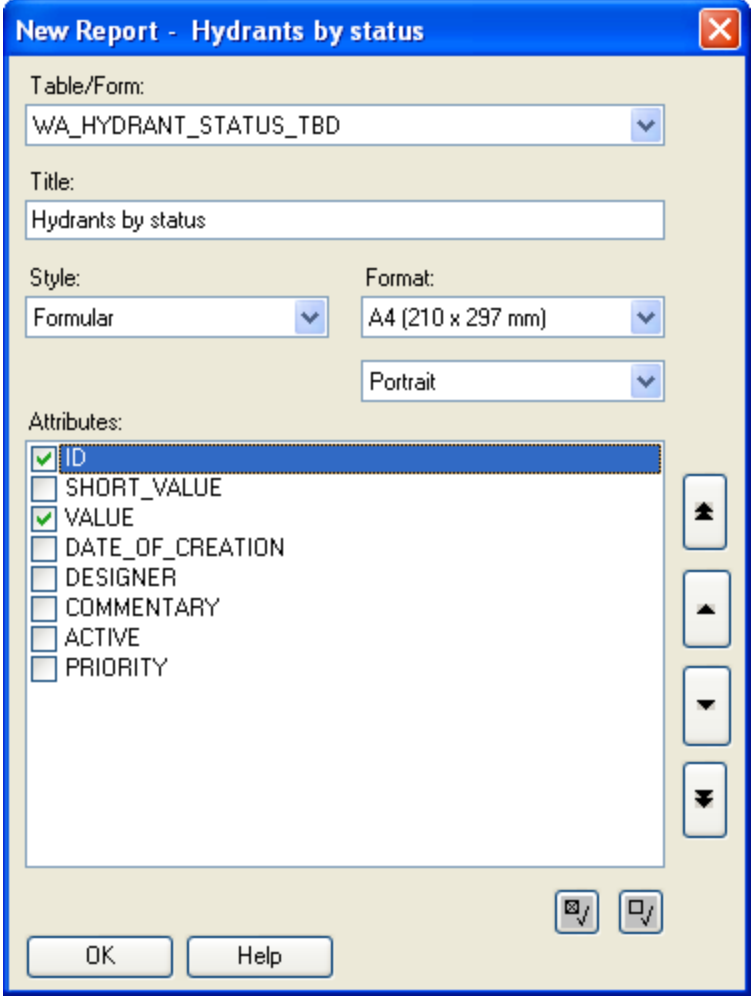
- Select **Report** menu > **New** > **Blank report**

OR

- Select **Report** > **New** > **Wizard** to create a new report

OR

- Click the **Create a new Report** () icon



New Report - Hydrants by status

Table/Form:
WA_HYDRANT_STATUS_TBD

Title:
Hydrants by status

Style:
Formular

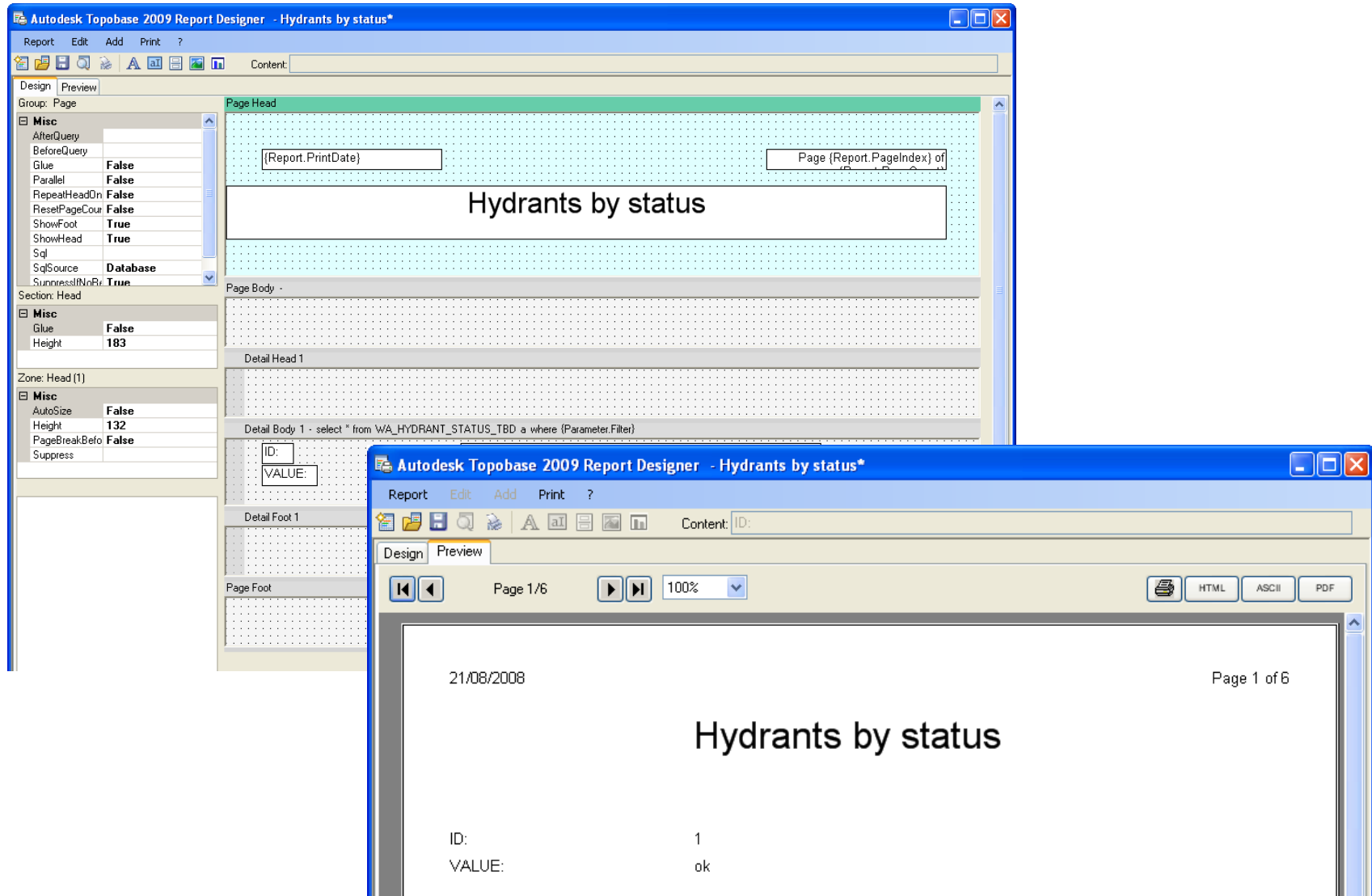
Format:
A4 (210 x 297 mm)
Portrait

Attributes:

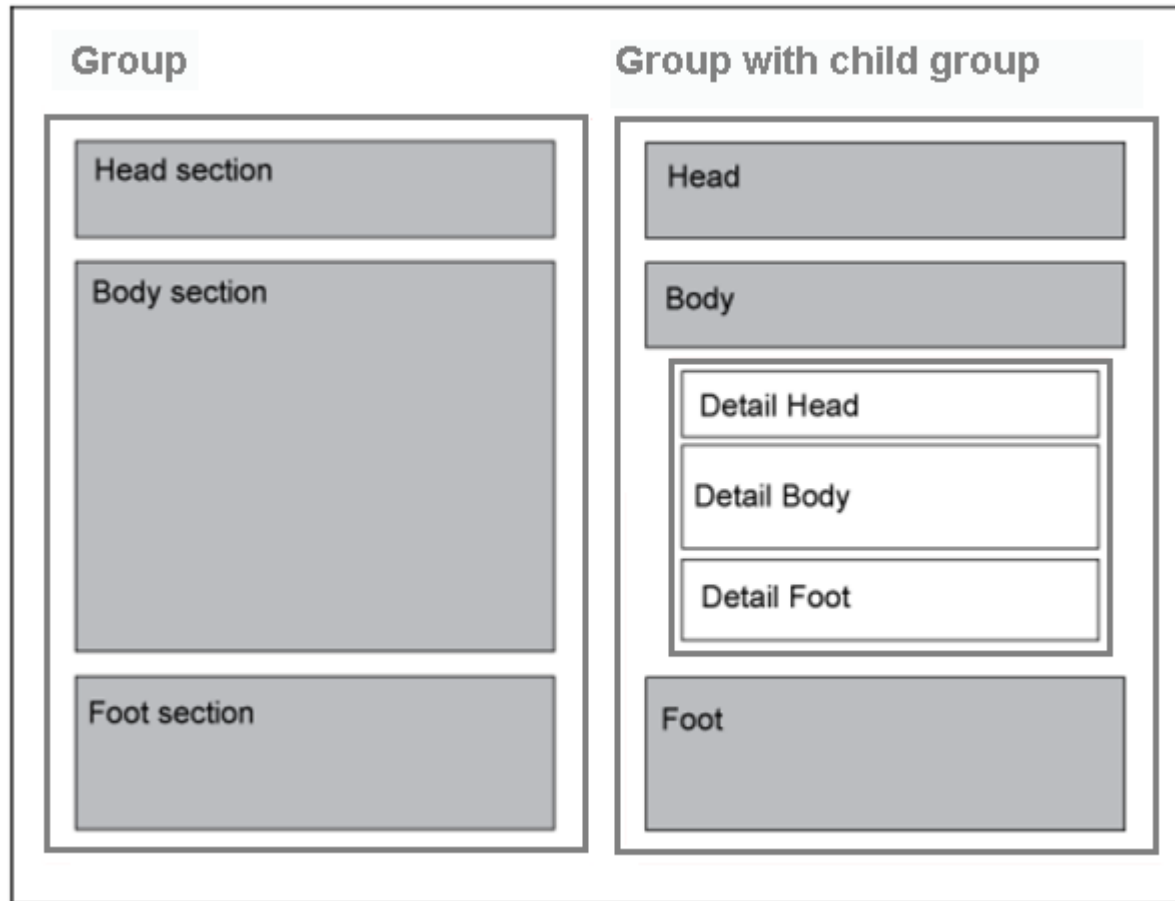
- ☒ ID
- ☐ SHORT_VALUE
- ☒ VALUE
- ☐ DATE_OF_CREATION
- ☐ DESIGNER
- ☐ COMMENTARY
- ☐ ACTIVE
- ☐ PRIORITY

OK Help

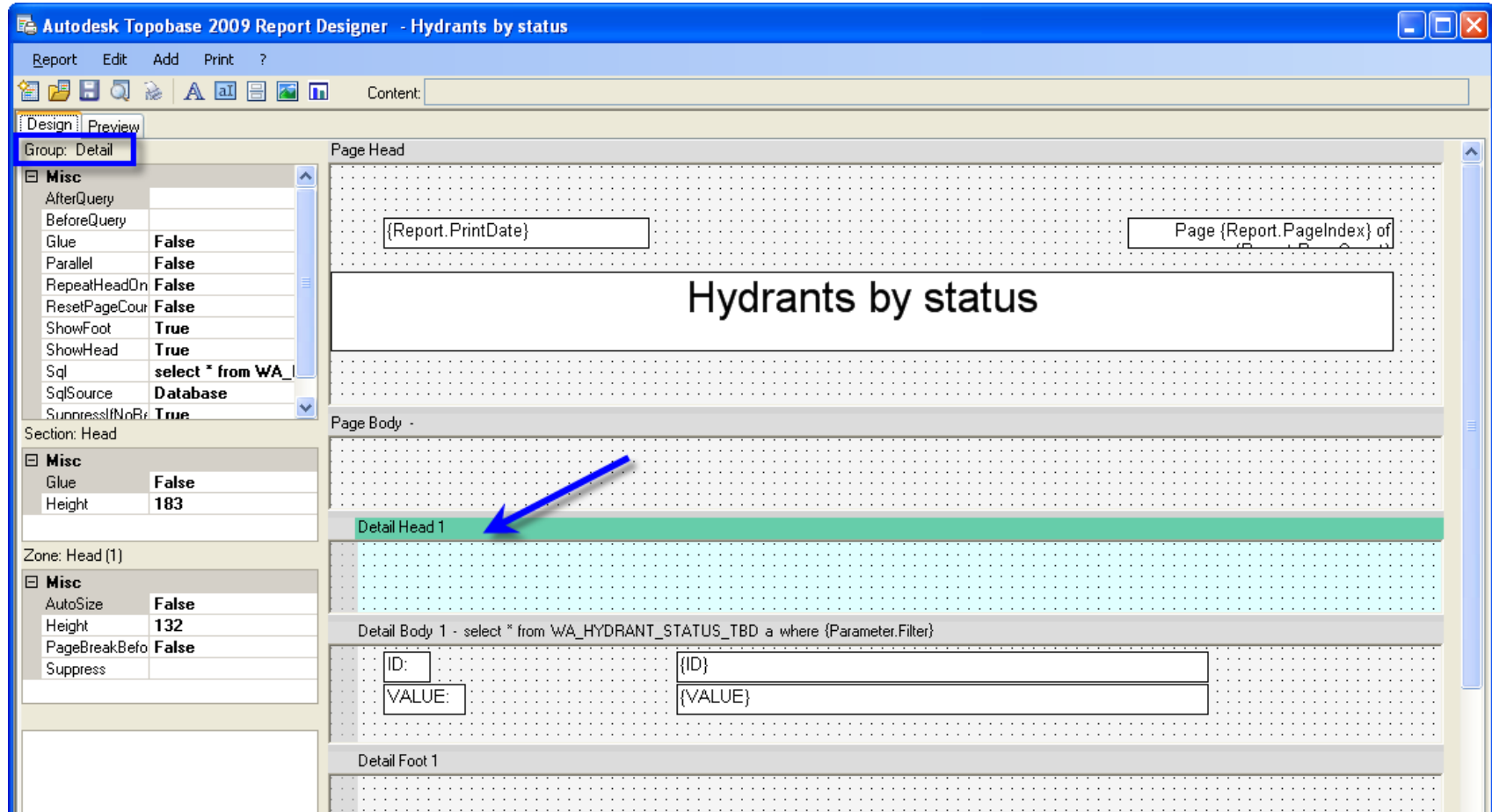
8.2.1 Creating a Report +



8.2.2 Layout Components



8.2.3 Displaying Data



8.2.3 Displaying Data +

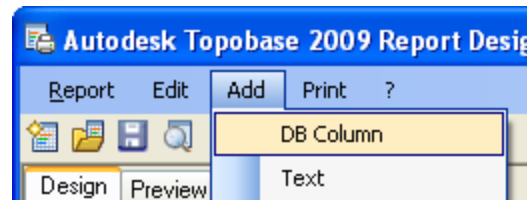
Group – SQL property

- The **Sql** property has the following SQL created by default:

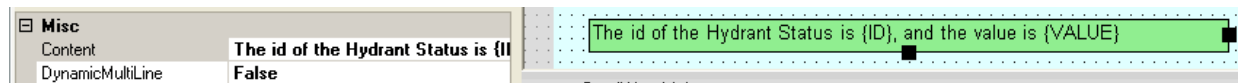
```
select * from WA_HYDRANT_STATUS_TBD a where  
{Parameter.Filter}
```

Controls – DB column vs. Text control

- To add new database columns, select the option **Add > DB Column**.



- If you want to add a label, you have to choose **Add > Text**.



8.2.4 Adding Report Detail Query—Child Groups

The screenshot shows the Autodesk Topobase 2009 Report Designer interface. The title bar reads "Autodesk Topobase 2009 Report Designer - Hydrants by status*". The menu bar includes Report, Edit, Add, Print, and ?. The "Add" menu is open, showing options: DB Column, Text, Picture, Line, Function, Sql, Special, Unit, PlugIn Function, Parameter, Form Control, Child Group (highlighted), Zone, and Page. The left pane shows the report structure with "Group: Detail" and "Section: Body". The main design area shows a report layout with a "Detail Head 1" section, a "Detail Body 1" section containing a query: "select * from WA_HYDRANT_STATUS_TBD a where {Parameter.Filter}", and a "Detail Head 1.1" section. A blue box highlights the "Detail Head 1.1" section, indicating it is the selected child group.

Autodesk Topobase 2009 Report Designer - Hydrants by status*

Report Edit Add Print ?

Design Preview

Group: Detail

Misc

- AfterQuery
- BeforeQuery
- Glue
- Parallel
- RepeatHeadOn
- ResetPageCou
- ShowFoot
- ShowHead
- Sql
- SqlSource
- SuppressIfNoB

Section: Body

Misc

- Glue
- Height

Zone: Body (1)

Misc

AutoSize	False
Height	180
PageBreakBefore	True
Suppress	

Content:

Page Head

{Report.PrintDate}

Detail Head 1

Detail Body 1 - select * from WA_HYDRANT_STATUS_TBD a where {Parameter.Filter}

ID: {ID}

VALUE: {VALUE}

Detail Head 1.1

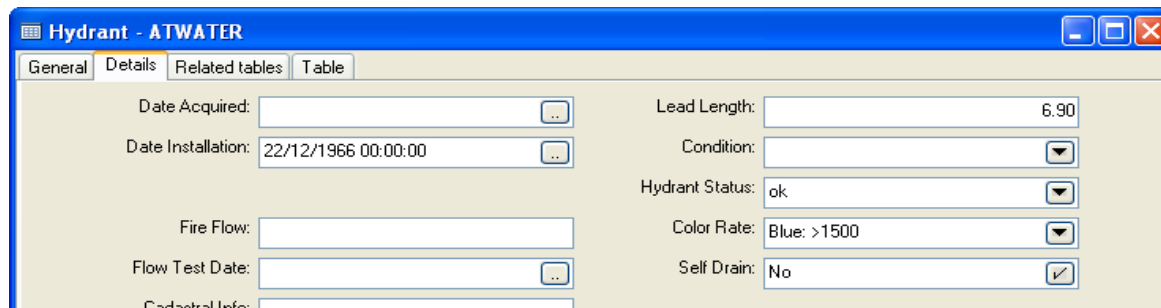
Detail Body 1.1 -

Detail Foot 1.1

Detail Foot 1

8.2.5 DB Column and Form Control

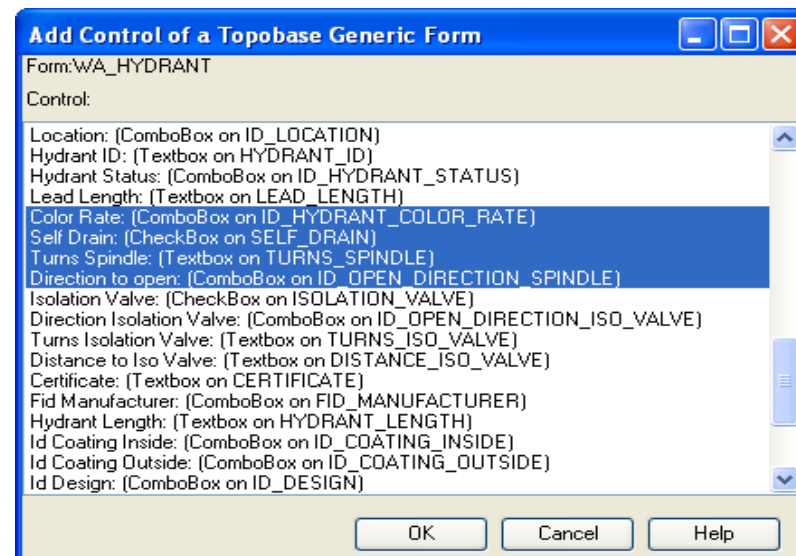
- If you select **Add > DB Column** to add database columns, you will get the list of columns of the Hydrant (WA_HYDRANT) feature class.



The screenshot shows a software window titled "Hydrant - ATWATER" with a tabbed interface. The "Details" tab is selected. The form contains several input fields and dropdown menus:

- Date Acquired: [Empty text box]
- Date Installation: 22/12/1966 00:00:00
- Lead Length: 6.90
- Condition: [Dropdown menu]
- Hydrant Status: ok
- Color Rate: Blue: >1500
- Self Drain: No
- Fire Flow: [Empty text box]
- Flow Test Date: [Empty text box]
- Cadastral Info: [Empty text box]

- To add a form control, select **Add > Form Control** from the menu.



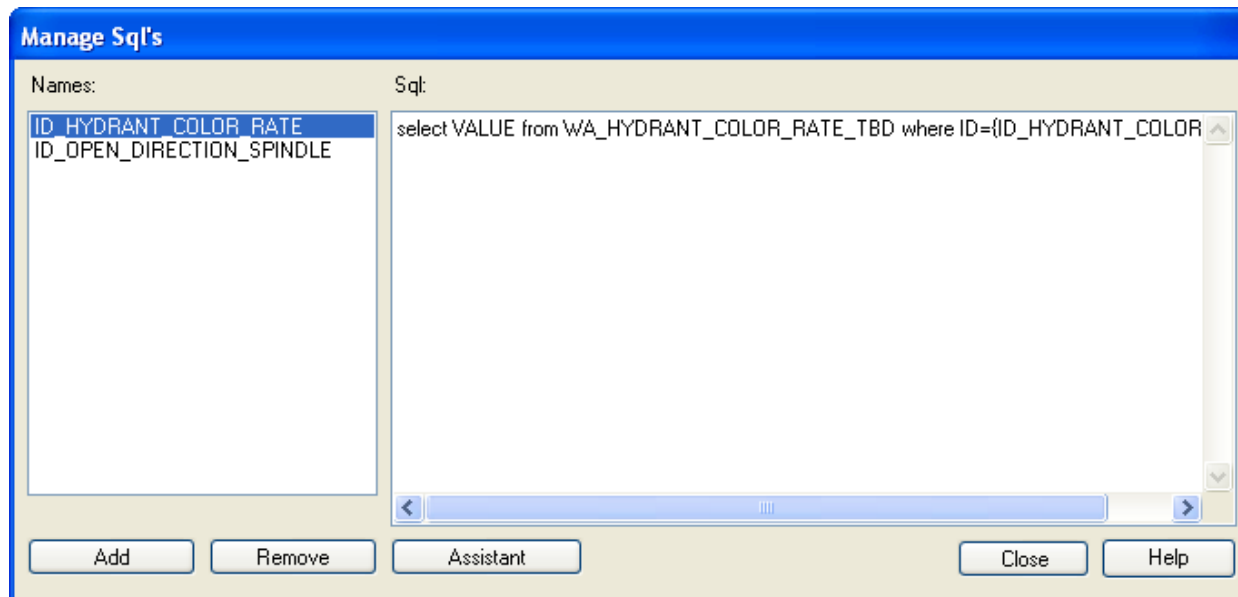
The screenshot shows a dialog box titled "Add Control of a Topobase Generic Form". It displays a list of controls for the form "Form:WA_HYDRANT". The controls are listed in a scrollable area, and "Color Rate: (ComboBox on ID_HYDRANT_COLOR_RATE)" is currently selected and highlighted in blue. The controls include:

- Location: (ComboBox on ID_LOCATION)
- Hydrant ID: (Textbox on HYDRANT_ID)
- Hydrant Status: (ComboBox on ID_HYDRANT_STATUS)
- Lead Length: (Textbox on LEAD_LENGTH)
- Color Rate: (ComboBox on ID_HYDRANT_COLOR_RATE)**
- Self Drain: (CheckBox on SELF_DRAIN)
- Turns Spindle: (Textbox on TURNS_SPINDLE)
- Direction to open: (ComboBox on ID_OPEN_DIRECTION_SPINDLE)
- Isolation Valve: (CheckBox on ISOLATION_VALVE)
- Direction Isolation Valve: (ComboBox on ID_OPEN_DIRECTION_ISO_VALVE)
- Turns Isolation Valve: (Textbox on TURNS_ISO_VALVE)
- Distance to Iso Valve: (Textbox on DISTANCE_ISO_VALVE)
- Certificate: (Textbox on CERTIFICATE)
- Fid Manufacturer: (ComboBox on FID_MANUFACTURER)
- Hydrant Length: (Textbox on HYDRANT_LENGTH)
- Id Coating Inside: (ComboBox on ID_COATING_INSIDE)
- Id Coating Outside: (ComboBox on ID_COATING_OUTSIDE)
- Id Design: (ComboBox on ID_DESIGN)

At the bottom of the dialog are three buttons: OK, Cancel, and Help.

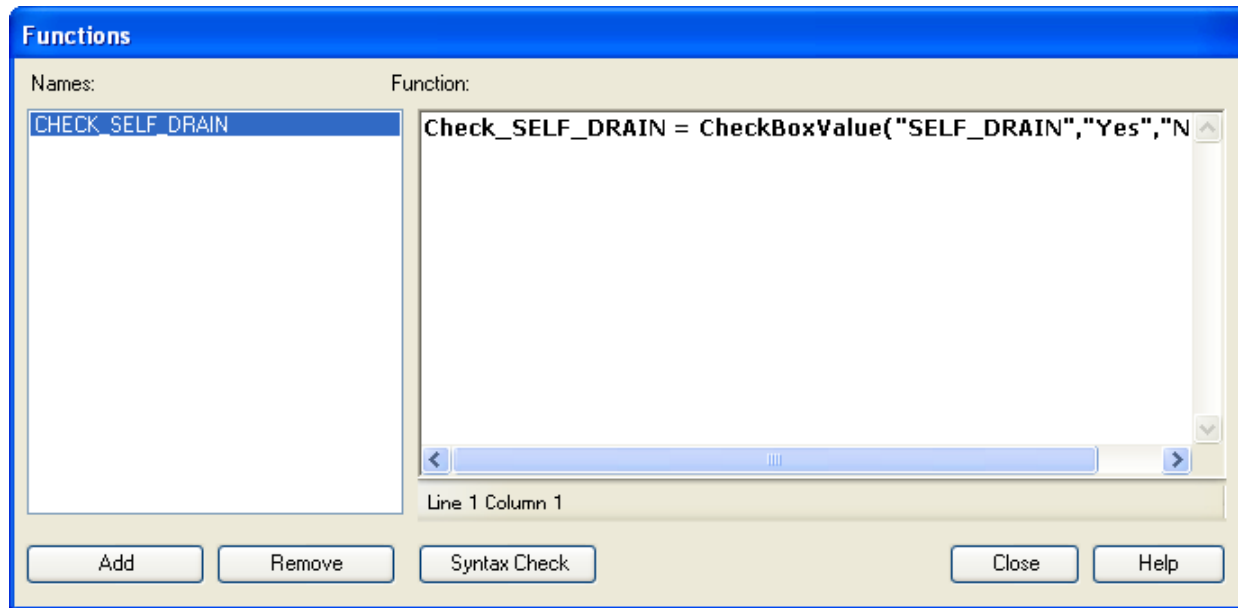
8.2.6 SQL Control

- The SQL controls are used to insert queries to select values from related tables.
- To browse existing SQL controls, select **Add > Sql > Manage**.

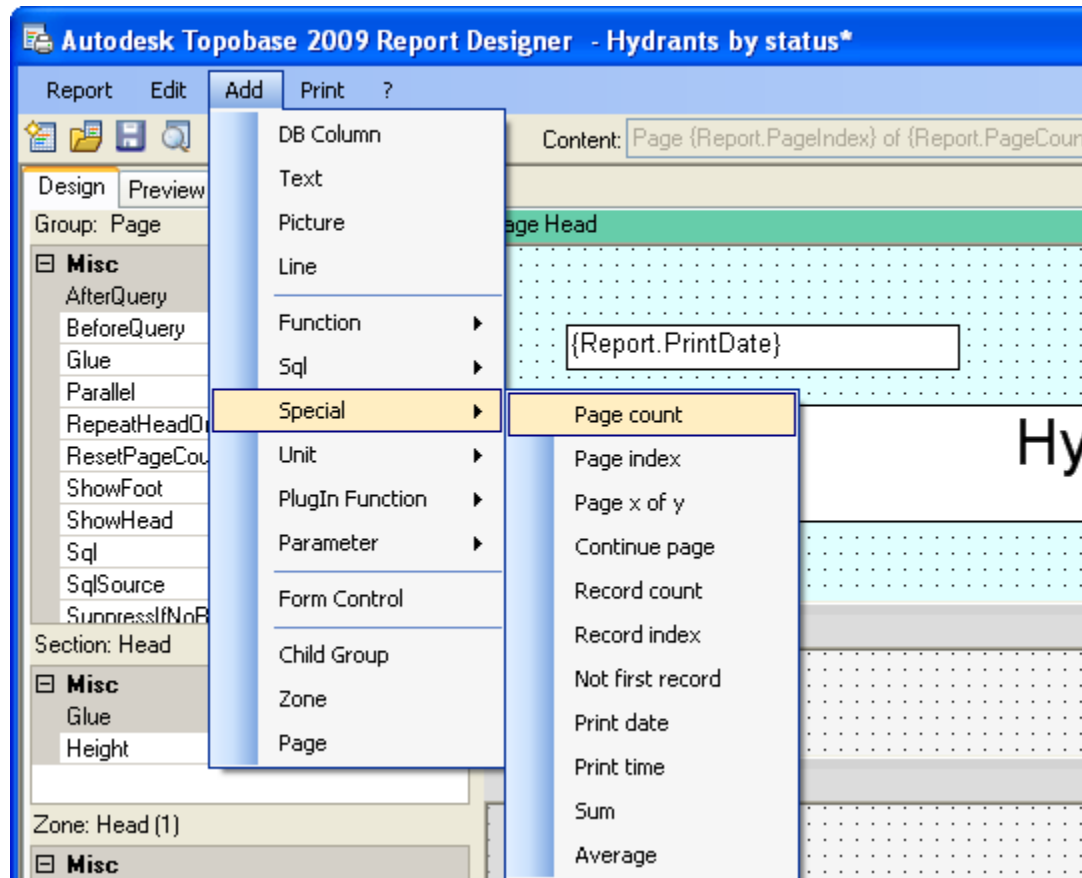


8.2.7 Function Control

- To browse existing Function controls, select **Add > Function > Manage**.



8.2.8 Special Controls



8.2.9 Other Components

- To enhance the look and feel of the report, you can add pictures or lines.
- Select **Add > Picture** or **Add > Line** or **Add > Page** or **Add > Zone**.

07/09/2008 Page 2 of 6

Hydrants by status

Status: 2 - replace hydrant

Feature ID	Hydrant Number	Capacity rate gallons/minute	Self drain	Open direction	Turns
3415	H0002	Green: 1000-1500	No	left	0
3417	H0004	Orange: 500-1000	No	left	0

Zone: Body (2)

Misc	
AutoSize	False
Height	91
PageBreakBefore	False
Suppress	

Detail Body 1 - select * from WA_HYDRANT_STATUS_TBD a where {

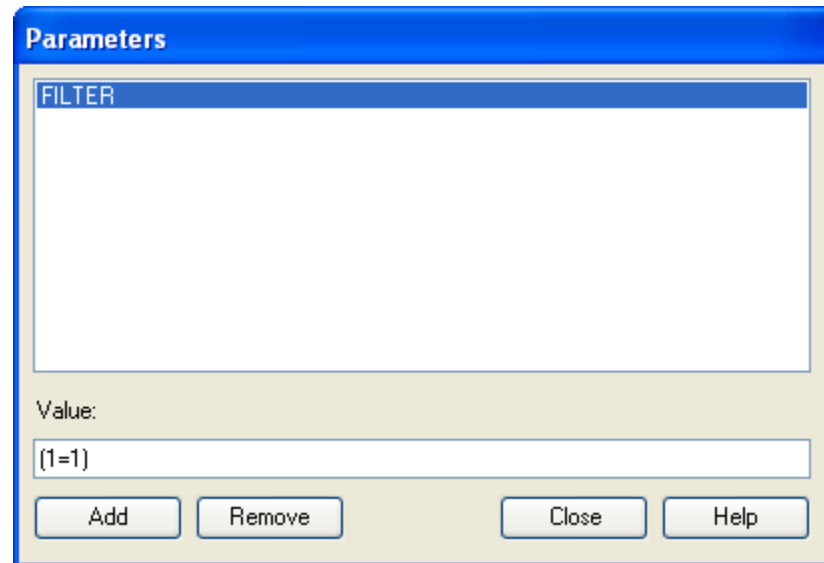
ID:	{ID}
VALUE:	{VALUE}

Detail Head 1.1


A blue arrow points from the 'Misc' table to the 'VALUE:' field in the 'Detail Body 1' table.

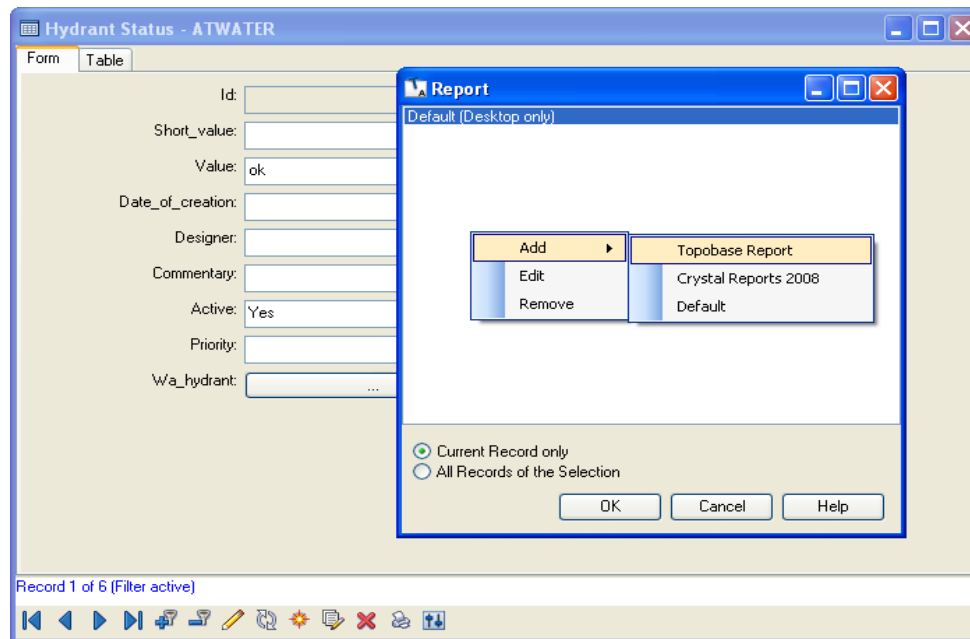
8.2.10 Parameters

- If you select **Add > Parameter > Manage**, the list of parameters is displayed.



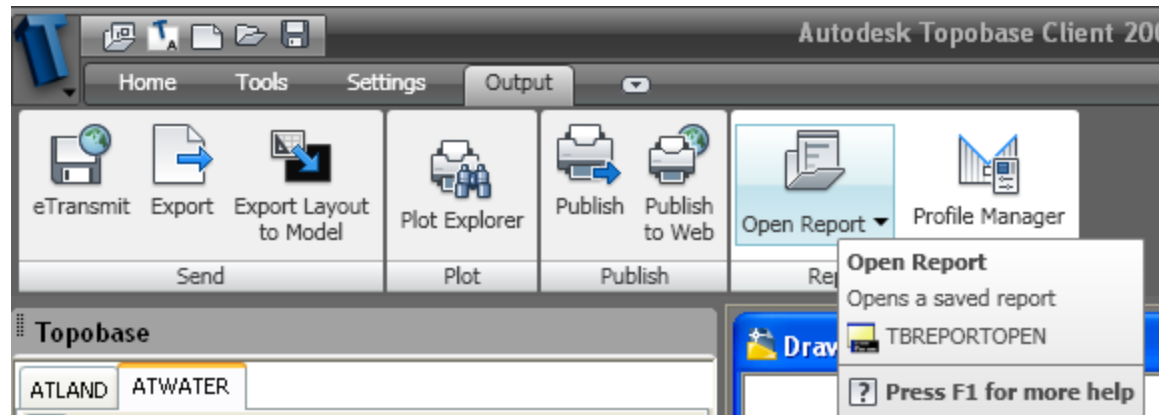
8.2.11 Adding a Report to a Feature Class Form

- To be able to call a report from a feature class form, add it to the form.
- Open the Hydrant Status domain table form, click the printer icon  in the toolbar.
- The Report dialog is shown, **right-click** in blank space and select **Add > Topobase Report**.



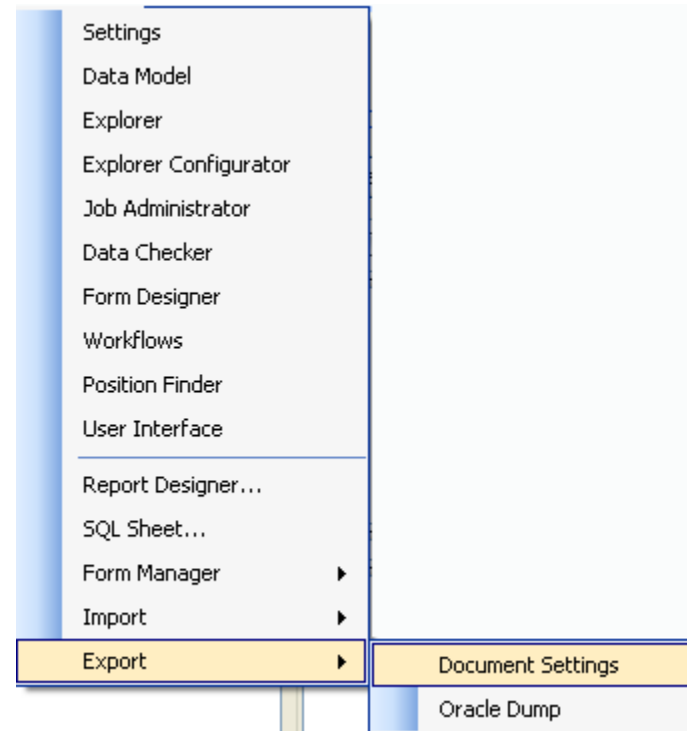
8.2.12 Printing a Report from Topobase Client

- You can generate reports directly from the **Output** tab, **Reports and Profiles** pane. Select **Open Report**.



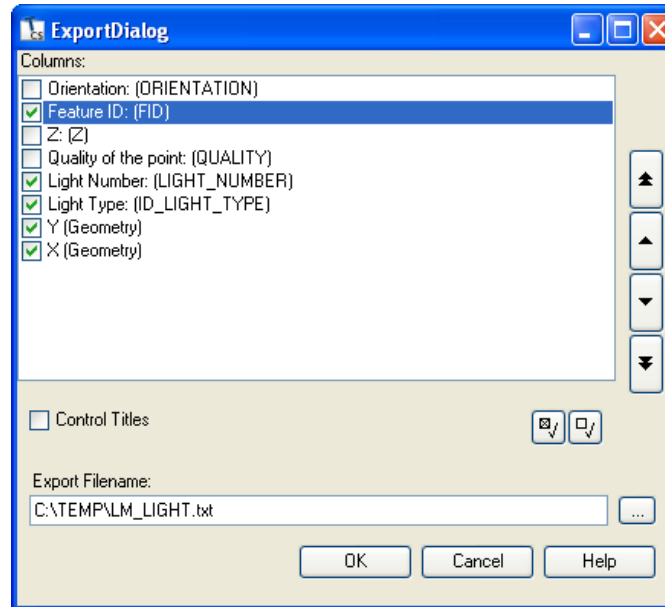
8.3.1 Exporting a Document

- Export document data to an Oracle dump file:
 - Back up data.
 - Share with other users.
- Export document settings to *xml*:



8.3.2 Exporting Attributes to an ASCII File

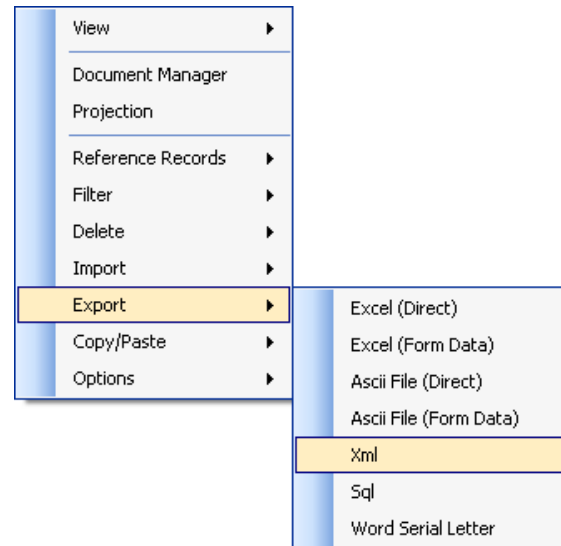
- Right-click anywhere in feature class form.
- Select:
 - **Export > Ascii File (Direct).**
 - **Export > Ascii File (Form Data).**



74288, 3860, 2, 4907279, 715892↓
74289, 3861, 2, 4907254, 715947↓
74290, 3862, 2, 4907182, 715913↓
74291, 3863, 2, 4907195, 715960↓
74292, 3864, 2, 4907153, 715966↓
74293, 6370, 2, 4906692, 715965↓
74294, 6371, 2, 4906768, 715943↓
74295, 6372, 2, 4906743, 715986↓
74296, 6373, 2, 4906795, 715980↓
74297, 6374, 2, 4906846, 715974↓
74298, 6375, 2, 4906898, 715967↓
74299, 6376, 2, 4906950, 715961↓
74300, 6377, 2, 4907002, 715955↓
74301, 6378, 2, 4906824, 715954↓
74302, 6379, 2, 4906894, 715946↓
74303, 6380, 2, 4906930, 715939↓
74304, 6381, 2, 4906963, 715933↓
74305, 6382, 2, 4907081, 715921↓
74306, 6386, 2, 4906603, 716030↓
74307, 6532, 1, 4907304, 715819↓
74308, 6533, 1, 4907279, 715866↓
74309, 6534, 2, 4907428, 715740↓
74310, 6535, 1, 4910325, 715297↓
74311, 6536, 1, 4910348, 715355↓

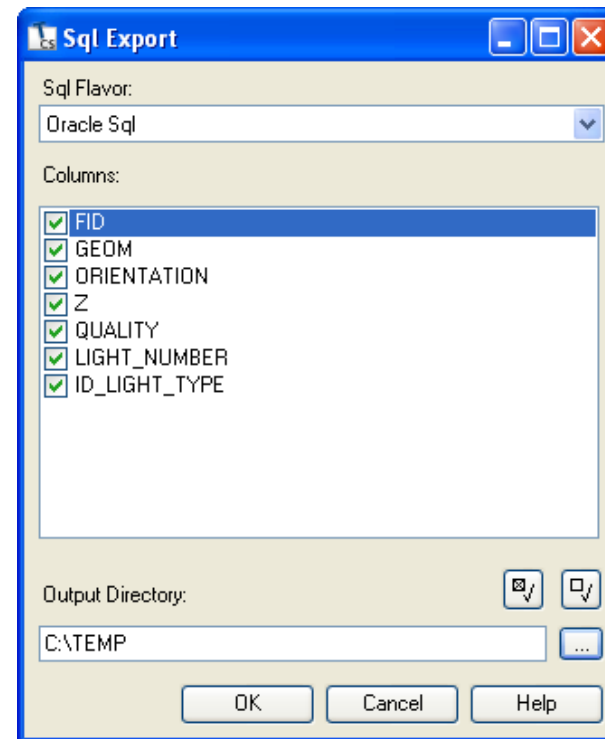
8.3.3 Exporting Attributes to XML

- Right-click anywhere in feature class form.
- Select:
 - **Export > Xml.**
- In the **Save As** dialog box, enter the relevant details.



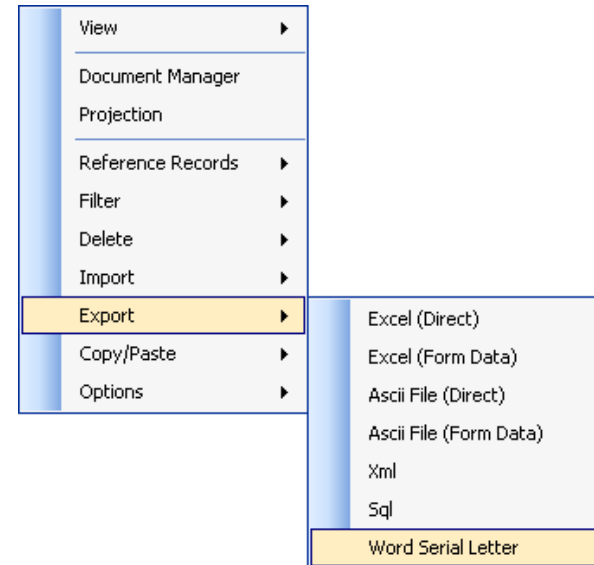
8.3.4 Exporting Attributes to SQL Statements

- The main advantage: You can export a subset of attributes from a feature class into a single SQL script.
- Others use this script to import data into their own databases.
- Right-click the feature class form and select **Export > SQL**.
- Export options include:
 - Oracle Sql.
 - Oracle Sql Loader.
 - Oracle PostGre Sql.



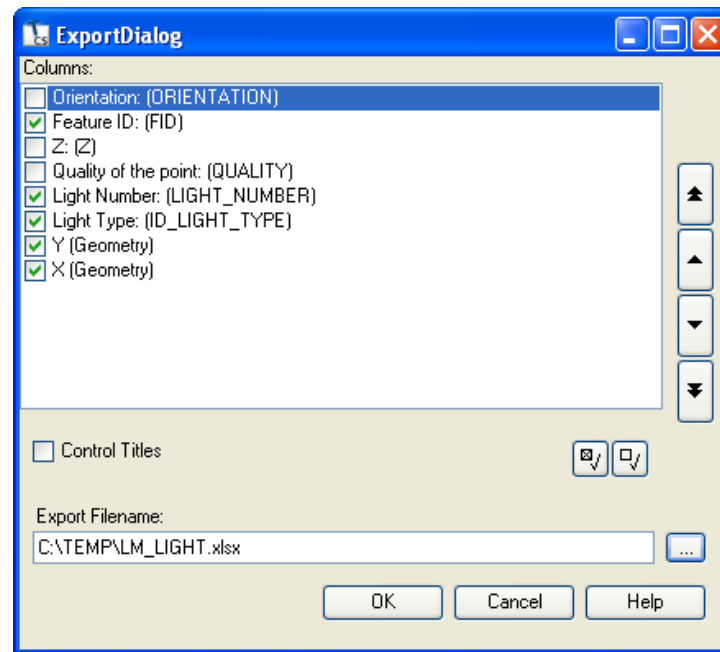
8.3.5 Exporting Attributes to Mail Merge

- In a feature class form:
 - Click the **Add Filter** tool and select records.
- Right-click and select:
 - **Export > Word Serial Letter.**
- Set up a Word document template.
- Use the document template.



8.3.6 Exporting Attributes to Excel

- Right-click anywhere in feature class form.
- Select:
 - **Export > Excel (Direct).**
 - **Export > Excel (Form Data).**



8.5 Chapter Summary

You should now be able to:

- Explain how data can be distributed throughout an organization.
- Generate a report.
- Export a document.
- Export data to other formats.

Autodesk®