



IMAGETREND ELITE

REPORT WRITER DATA MART GUIDE

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1.1 IMAGETREND DATA MART OVERVIEW

ImageTrend's Data Mart is an add-on for reporting that allows you to get a copy of your reporting database to run queries and reports against in your own preferred reporting tool.

Facts

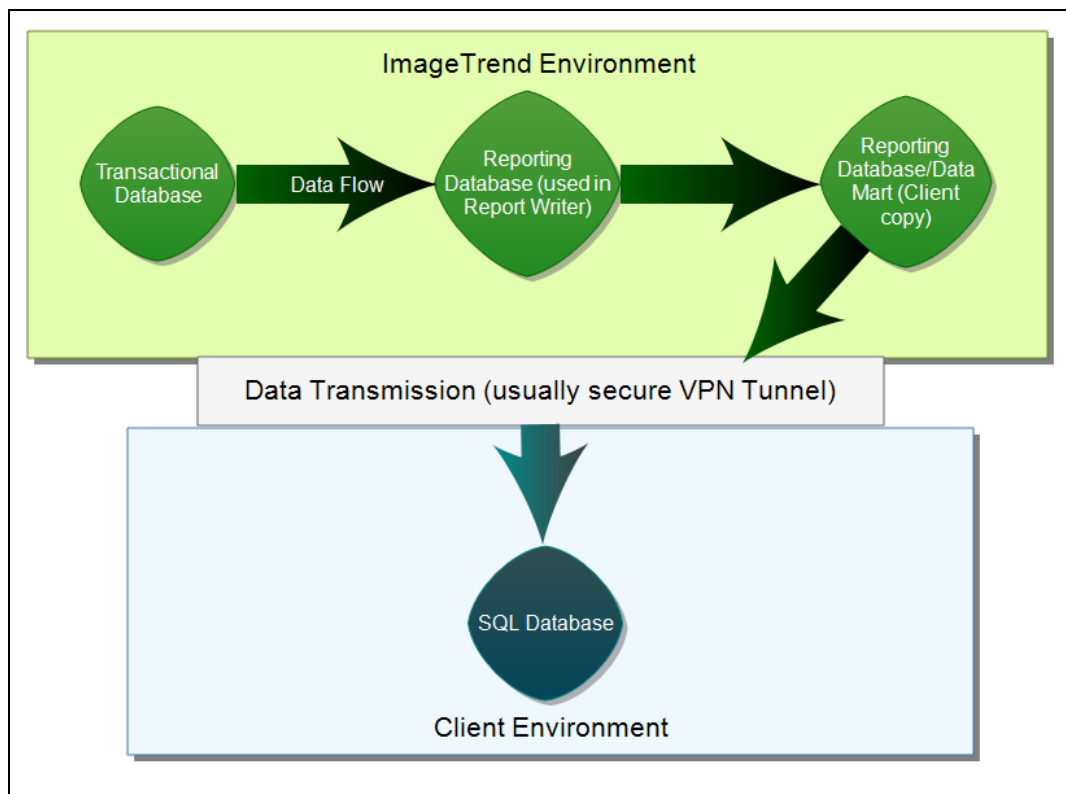
- Every site has a reporting database, which is designed and fine-tuned for the best experience in **getting data out of the system**, in the form of reports through Report Writer. This reporting database is the basis for the Data Mart.
 - In contrast, the standard transactional database is where your data is saved when you enter it into your system. It is designed and tuned to efficiently get data **into** the system, allowing for you to save quickly when you enter information.
 - The Analytics data cubes (part of the optional Visual Informatics/Analytics add-on) are designed to allow an entirely different type of reporting, focused on aggregates and drill-downs.
- You may purchase a Data Mart add-on (in addition to the standard reporting database), which is detailed in this guide and allows you to replicate your reporting database for use with your own tools for additional access.
 - This allows the reporting database data to be loaded into a replicated read-only live database OR delivered on a regular basis to be loaded directly into your own SQL server. The method and frequency of this delivery will be determined before setting this up, but data is most frequently delivered via an FTPS connection.
 - Clients that are interested in getting direct access to the ImageTrend data marts using other reporting and analysis tools can do so by purchasing an ImageTrend Data Mart Access or Integration offering. For example, if you are interested in accessing Elite Data Marts directly from a tool like SAS, you can purchase the “ImageTrend Data Mart Access for SAS” offering. Alternatively, if you are interested in integrating data from the Elite Data Marts with your organization’s Facebook page or a page on your organization’s public website, you can purchase a ImageTrend Data Mart Integration offerings tailored for websites.
 - When working with your own copy of the Data Mart, you will have the flexibility to query data from ImageTrend **as well as** from other external databases that you may have access to (such as crash data, hospital outcome data, etc.), as allowed by the reporting software that you work with.
 - For clients with third party systems, your copy of the Data Mart can be queried using any industry-standard business intelligence tools, such as Crystal Reports, SAS, Tableau and many others.
 - We strongly recommend that only clients with a strong familiarity with Microsoft SQL or other database technology purchase and implement a Data Mart, as you require background knowledge in databases (rather than in ImageTrend software) in order to successfully use a Data Mart.

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- Data Marts follow industry-standard Star Schema design pattern, which is a widely used data structure optimized for fast reporting.

! IMPORTANT! The schema used in your data mart is a vital part of the system that controls both your ability to get updated data in your Data Mart and, in some situations, your ability to successfully build reports. **Do not make changes to the schema**, as doing so can cause significant problems with your system and data mart and may result in your Data Mart no longer receiving updated data. **ImageTrend does not provide support or assistance due to issues caused by you changing your schema.** Additionally, ImageTrend may make schema changes as part of Data Mart updates, and is not responsible for the functionality of proprietary or third party applications that may be affected by the change.

How It Works



1. As new data is entered into Elite, the data is placed into the Transactional database.
2. The data is optimized for reporting and placed in the reporting database on a set schedule.
3. The internal ImageTrend reporting database is copied to create the client copy of the reporting database Data Mart, for reporting from your system.
4. The data is pushed to a SQL database in your environment, based on the setup performed during your implementation.


Additional Tips

- The jobs that move data into the ImageTrend reporting database for reporting are run on a set schedule that is determined when your site is set up. The frequency that the reporting database will be copied and sent to your environment is determined when purchasing and implementing your Data Mart.
 - Keep in mind that there is a process that runs to refresh your data, and this process takes time to complete. This means that your data will not be real time.
- If you have the add-on export, once the data is transferred to your SQL database, it is up to you how you choose to connect to it and work with your data.
- Once your Data Mart is replicated to your own SQL database and environment, it is up to you who connects to it and can access it. ImageTrend's Elite security settings are no longer in place to control access to the data that has been copied out of the system. To protect the security of your data, we recommend that fewer people have access to the data and your Data Mart database.

How to Get Started

When first purchasing a Data Mart, work with your Implementation Coordinator to ensure that your Data Mart is set up correctly and that your data will continue to flow to it.


After implementation of your Data Mart, you can begin working with your data as needed. Until you become familiar with your data and the structure of it within the Data Mart, we recommend beginning by creating transactional reports in Report Writer that are similar to your goal. Using the View Query option from those reports in Report Writer can give you information about the fields included in that report and how to find them in the Data Mart. For more information, see [Viewing the Query in Report Writer on page 6](#).

 **NOTE:** The View Query option will be turned on for key personnel during implementation; it may not immediately be available for you upon purchasing the Data Mart.

1.2 DATA MART SETUP AND SERVER CONSIDERATIONS

The following information pertains to ImageTrend Data Marts for reporting.

Setup Considerations

- **Secure VPN Tunnel Port:** 443
- **Supported Database Type:** Microsoft SQL
 -  SQL Express, MYSQL and Oracle not supported
- **SQL Server Version:** 2019 or Higher (Standard or Enterprise)

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- **Server/Database Size:** The database size depends on how the data will be used.



NOTE: When building your database server, be sure to allow for future growth as you collect more data.

- **Required Setting:** The CLR function must be enabled on the database instance that hosts your external data mart.
- **Required User Account Access:** ImageTrend's IT staff requires a Microsoft SQL Authentication login with the following permissions:
 - The DB Owner fixed role on the database itself
 - The DB Creator fixed role on SQL Server

Why?

ImageTrend uses a Microsoft database management strategy that is designed to better manage database updates to ensure maximum reliability during updates. This industry-standard technology helps the update process for your database to proceed securely and smoothly with every update.

Our staff requires these permissions in order to deploy a data-tier application (DAC). Since these permissions are used for each update, our staff requires these permissions on an ongoing basis. For more information about the process that our IT team will be completing with these permissions, please refer to this article from Microsoft:

<https://docs.microsoft.com/en-us/sql/relational-databases/data-tier-applications/data-tier-applications?view=sql-server-ver16>

- Once your Data Mart is replicated to your own SQL database and environment, it is up to you who connects to it and can access it. ImageTrend's Elite security settings are no longer in place to control access to the data that has been copied out of the system. To protect the security of your data, we recommend that fewer people have access to the data and your Data Mart database.
- It is important to ensure that your SQL Server always has the most current Cumulative Update. When this is out of date, your Data Mart can sometimes encounter issues.

Server Considerations and Specifications

Server/database size depends on how the data will be used and should be built to allow for future growth. The following information is the minimum specifications, although for improved performance and data growth we strongly recommend increasing these specifications.

Minimum Basic Specifications:

- 4 CPU cores (speed of the cores is less important but should be at least consistent with current industry standards)
- 64 GBs of RAM

Disk Layout (Minimum):

- C drive: System drive and SQL install – 40-50 GBs
- D drive: SQL MDF files – 100 GBs
- E drive: SQL LDF files – 20 GBs


Disk Layout (More Advanced):

- C drive: System drive and SQL install – 40-50 GBs
- D drive: Tempdb SQL MDF files – 40 GBs
- E drive: Tempdb SQL LDF files – 10 GBs
- F drive: SQL MDF files – 100 GBs
- G drive: SQL LDF files – 20 GBs


1.3 IMAGETREND DATA MART IMPLEMENTATION STEPS

The following implementation steps are provided as a guideline for what to expect during your implementation. Please note that the time to completion is dependent on the Client responding to ImageTrend within the expected time frame.

Total Estimated Time to Completion: 4–6 weeks from Kick Off Call

Step	Task	Responsible Party	Time to Complete
1	Implementation Coordinator schedules kick off call with Client and ImageTrend technical representative.	Implementation Coordinator	Schedule call within 1 week of order assignment
2	Implementation Coordinator sends the VPN workbook document to Client, which will gather necessary information for the setup and connection between ImageTrend and client environment. <div>  NOTE: This workbook also has information for the client regarding ImageTrend's setup </div>	Implementation Coordinator	Workbook will be included in kick off call agenda
3	Client sends the completed VPN worksheet to Implementation Coordinator.	Client	1 week
4	Client begins configuration of the	Client	3 weeks

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	Server and SQL database being used for the Data Mart. Any necessary authentication information should be sent to Implementation Coordinator.		 NOTE: This step usually occurs at the same time as steps 5 & 6, but needs to be completed before we can complete the initial load (part of step 6).
5	ImageTrend IT group configures VPN tunnel.	ImageTrend IT	1 week
6	DBA and Report Writer team work on the scripts for the data load. An initial full load is done to prime the Data Mart on the client system, and then the continuous load ETL job is enabled.	ImageTrend DBA & ImageTrend Report Writer Team	2 weeks
7	Database Schema & call with Report Writer representative to review any questions.	ImageTrend Report Writer Representative	

1.4 VIEWING THE QUERY IN REPORT WRITER

When getting started with looking at your Data Mart data in SQL, it can be helpful to look at how queries are built within ImageTrend's Report Writer.

Facts

- This is an administrative feature that ImageTrend will need to turn on for the users you want to be able to view Report Writer queries.
- This option can allow you to see what data is called when you want to see specific data points, helping you find what you want to query in your Data Mart database.

Instructions

1. Open Report Writer and run a report with the columns you want to see.
2. From the Actions menu, click *View Query*.

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The View Query option:

Columns	Display	Grouping	Sorting	Criteria	Additional Options	Actions
Columns: AFS Test Report						Save
Data Set: EMS Incidents						Save As...
Select Columns						Delete...
Search: <input type="text"/>						Rename/Change Properties...
Available						Publish to Web Service...
Agency 911 EMS Call Center Volume Per Year (dAgency.18)						Permissions...
Agency 911 EMS Call Center Volume Per Year Invalid (dAgency.18)						Schedule Report...
Agency 911 EMS Call Center Volume Per Year With Not Values (dAgency.18)						Remove from 'My Reports' Section
Agency Active Status						Export
Agency Annual 911 EMS Call Center Volume Range (dAgency.18)						Print...
Agency Annual 911 EMS Call Center Volume Range Sort Order (dAgency.18)						View Query
Agency Annual EMS Billable Calls Range (dAgency.22)						
Agency Annual EMS Billable Calls Range Sort Order (dAgency.22)						
Agency Annual EMS Dispatch Volume Range (dAgency.19)						
Agency Annual EMS Dispatch Volume Range Sort Order (dAgency.19)						
Agency Annual EMS Patient Contact Volume Range (dAgency.21)						
Agency Annual EMS Patient Contact Volume Range Sort Order (dAgency.21)						
Agency Annual EMS Patient Transport Volume Range (dAgency.20)						
Agency Annual EMS Patient Transport Volume Range Sort Order (dAgency.20)						

The query:

View Query
<pre>SET DATEFIRST 7; with [results] as (select row_number() over(order by [Dim_Disposition___Disposition_Incident_Patient_Disposition] asc, [DSV_Dim_Incident_Date___Incident_Date] desc) as 'row', * from (select [Dim_Incident_One_To_One].[Response_Incident_Number] as [Dim_Incident_One_To_One___Response_Incident_Number], [Dim_Disposition]. [Disposition_Incident_Patient_Disposition] as [Dim_Disposition___Disposition_Incident_Patient_Disposition], [DSV_Dim_Incident_Date].[Incident_Date] as [DSV_Dim_Incident_Date___Incident_Date], [Dim_Incident].[Incident_Record_Created_By] as [Dim_Incident___Incident_Record_Created_By], [Dim_Incident_One_To_One].[Incident_Agency_Short_Name] as [param___Dim_Incident_One_To_One___Incident_Agency_Short_Name], [Fact_Incident]. [Incident_Transaction_GUID_Internal] as [param___Fact_Incident___Incident_Transaction_GUID_Internal], [Dim_Incident_One_To_One].[Incident_Form_Number] as [param___Dim_Incident_One_To_One___Incident_Form_Number] from [DwyEMS].[Fact_Incident] LEFT join [DwyEMS].[Dim_Incident] as [Dim_Incident] on [Fact_Incident].[Dim_Incident_FK] = [Dim_Incident].[Dim_Incident_PK] LEFT join [DwyEMS].[Dim_Agency] as [Dim_Agency] on [Fact_Incident].[Dim_Agency_FK] = [Dim_Agency].[Dim_Agency_PK] LEFT join [DwyEMS].[Dim_Disposition] as [Dim_Disposition] on [Fact_Incident].[Dim_Disposition_FK] = [Dim_Disposition].[Dim_Disposition_PK] LEFT join [dbo].[DSV_Dim_Incident_Date] as [DSV_Dim_Incident_Date] on [Fact_Incident].[Dim_Incident_Date_FK] = [DSV_Dim_Incident_Date]. [Dim_Incident_Date_FK] LEFT join [DwyEMS].[Dim_Permission_AllAgency] as [Dim_Permission_AllAgency] on [Fact_Incident].[Dim_Agency_FK] = [Dim_Permission_AllAgency]. [Dim_Agency_PK] and Dim_Permission_AllAgency.Performer_ID_Internal = 'b5107cc0-16f8-4a30-82e6-b8a1f0cbf23a' LEFT join [DwyEMS].[Dim_Permission_MyEMS] as [Dim_Permission_MyEMS] on [Fact_Incident].[Fact_Incident_PK] = [Dim_Permission_MyEMS].[Fact_Incident_PK] and Dim_Permission_MyEMS.Performer_ID_Internal = 'b5107cc0-16f8-4a30-82e6-b8a1f0cbf23a' LEFT join [DwyEMS].[Dim_Permission_OtherEMS] as [Dim_Permission_OtherEMS] on [Fact_Incident].[Fact_Incident_PK] = [Dim_Permission_OtherEMS]. [Fact_Incident_PK] and Dim_Permission_OtherEMS.Performer_ID_Internal = 'b5107cc0-16f8-4a30-82e6-b8a1f0cbf23a' LEFT join [DwyEMS].[Dim_Incident_One_To_One] as [Dim_Incident_One_To_One] on [Fact_Incident].[Dim_Incident_One_To_One_FK] = [Dim_Incident_One_To_One].[Dim_Incident_One_To_One_PK]</pre>
Close

1.5 SQL VIEW FOR EMS DATA

The following information is intended to give clients who have purchased the ImageTrend Data Mart for reporting an understanding of the relationships of the tables within the reporting database for Elite

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systems with EMS.

This data requires an understanding of Microsoft SQL and database structure and is not intended for individuals who are not comfortable working with SQL.

```
CREATE VIEW [dbo].[DSV_Elite_EMS_Incident_View]
AS
SELECT Fact_Incident.*
FROM [DwEms].[Fact_Incident]
LEFT JOIN [DwEms].[Bridge_Incident_Procedure] AS [Bridge_Incident_Procedure] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Procedure].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Procedure] AS [Dim_Procedure] ON [Bridge_Incident_Procedure].[Dim_Procedure_PK] = [Dim_Procedure].[Dim_Procedure_PK]
LEFT JOIN [DwEms].[Dim_Incident] AS [Dim_Incident] ON [Fact_Incident].[Dim_Incident_FK] = [Dim_Incident].[Dim_Incident_PK]
LEFT JOIN [DwEms].[Bridge_Incident_Medication] AS [Bridge_Incident_Medication] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Medication].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Medication] AS [Dim_Medication] ON [Bridge_Incident_Medication].[Dim_Medication_PK] = [Dim_Medication].[Dim_Medication_PK]
LEFT JOIN [DwEms].[Dim_Patient] AS [Dim_Patient] ON [Fact_Incident].[Dim_Patient_FK] = [Dim_Patient].[Dim_Patient_PK]
LEFT JOIN [DwEms].[Dim_Agency] AS [Dim_Agency] ON [Fact_Incident].[Dim_Agency_FK] = [Dim_Agency].[Dim_Agency_PK]
LEFT JOIN [DwEms].[Bridge_Agency_AgencyServiceGroup] AS [Bridge_Agency_AgencyServiceGroup] ON [Dim_Agency].[Dim_Agency_PK] = [Bridge_Agency_AgencyServiceGroup].[Dim_Agency_PK]
LEFT JOIN [DwEms].[Dim_AgencyServiceGroup] AS [Dim_AgencyServiceGroup] ON [Bridge_Agency_AgencyServiceGroup].[Dim_Agency_Service_Group_PK] = [Dim_AgencyServiceGroup].[Dim_AgencyServiceGroup_PK]
LEFT JOIN [DwEms].[Bridge_Agency_AgencyYearGroup] AS [Bridge_Agency_AgencyYearGroup] ON [Dim_Agency].[Dim_Agency_PK] = [Bridge_Agency_AgencyYearGroup].[Dim_Agency_PK]
LEFT JOIN [DwEms].[Dim_AgencyYearGroup] AS [Dim_AgencyYearGroup] ON [Bridge_Agency_AgencyYearGroup].[Dim_Agency_Year_Group_PK] = [Dim_AgencyYearGroup].[Dim_AgencyYearGroup_PK]
LEFT JOIN [DwEms].[Bridge_Incident_Labs] AS [Bridge_Incident_Labs] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Labs].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Labs] AS [Dim_Labs] ON [Bridge_Incident_Labs].[Dim_Labs_PK] = [Dim_Labs].[Dim_Labs_PK]
LEFT JOIN [DwEms].[Bridge_Labs_LabsImageGroup] AS [Bridge_Labs_LabsImageGroup] ON [Dim_Labs].[Dim_Labs_PK] = [Bridge_Labs_LabsImageGroup].[Dim_Labs_PK]
LEFT JOIN [DwEms].[Dim_LabsImageGroup] AS [Dim_LabsImageGroup] ON [Bridge_Labs_LabsImageGroup].[Dim_LabsImageGroup_PK] = [Dim_LabsImageGroup].[Dim_LabsImageGroup_PK]
LEFT JOIN [DwEms].[Bridge_Labs_LabsResultGroup] AS [Bridge_Labs_LabsResultGroup] ON [Dim_Labs].[Dim_Labs_PK] = [Bridge_Labs_LabsResultGroup].[Dim_Labs_PK]
LEFT JOIN [DwEms].[Dim_LabsResultGroup] AS [Dim_LabsResultGroup] ON [Bridge_Labs_LabsResultGroup].[Dim_LabsResultGroup_PK] = [Dim_LabsResultGroup].[Dim_LabsResultGroup_PK]
LEFT JOIN [DwEms].[Dim_Situation] AS [Dim_Situation] ON [Fact_Incident].[Dim_Situation_FK] = [Dim_Situation].[Dim_Situation_PK]
LEFT JOIN [DwEms].[Bridge_Situation_SituationPatientComplaintGroup] AS [Bridge_Situation_SituationPatientComplaintGroup] ON [Dim_Situation].[Dim_Situation_PK] = [Bridge_Situation_SituationPatientComplaintGroup].[Dim_Situation_PK]
LEFT JOIN [DwEms].[Dim_SituationPatientComplaintGroup] AS [Dim_SituationPatientComplaintGroup] ON [Bridge_Situation_SituationPatientComplaintGroup].[Dim_SituationPatientComplaintGroup_PK] = [Dim_SituationPatientComplaintGroup].[Dim_SituationPatientComplaintGroup_PK]
LEFT JOIN [DwEms].[Bridge_Incident_Vitals] AS [Bridge_Incident_Vitals] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Vitals].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Vitals] AS [Dim_Vitals] ON [Bridge_Incident_Vitals].[Dim_Vitals_PK] = [Dim_Vitals].[Dim_Vitals_PK]
```

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```
LEFT JOIN [DwEms].[Dim_Response] AS [Dim_Response] ON [Fact_Incident].[Dim_Response_FK] =
[Dim_Response].[Dim_Response_PK]
LEFT JOIN [DwEms].[Dim_Airway] AS [Dim_Airway] ON [Fact_Incident].[Dim_Airway_FK] = [Dim_
Airway].[Dim_Airway_PK]
LEFT JOIN [DwEms].[Dim_Disposition] AS [Dim_Disposition] ON [Fact_Incident].[Dim_Dis-
position_FK] = [Dim_Disposition].[Dim_Disposition_PK]
LEFT JOIN [DwEms].[Bridge_Disposition_DispositionHospitalTeamActivationGroup] AS [Bridge_
Disposition_DispositionHospitalTeamActivationGroup] ON [Dim_Disposition].[Dim_Disposition_
PK] = [Bridge_Disposition_DispositionHospitalTeamActivationGroup].[Dim_Disposition_PK]
LEFT JOIN [DwEms].[Dim_DispositionHospitalTeamActivationGroup] AS [Dim_Dis-
positionHospitalTeamActivationGroup] ON [Bridge_Disposition_Dis-
positionHospitalTeamActivationGroup].[Dim_DispositionHospitalTeamActivationGroup_PK] =
[Dim_DispositionHospitalTeamActivationGroup].[Dim_DispositionHospitalTeamActivationGroup_
PK]
LEFT JOIN [DwEms].[Bridge_Airway_AirwayConfirmationGroup] AS [Bridge_Airway_Air-
wayConfirmationGroup] ON [Dim_Airway].[Dim_Airway_PK] = [Bridge_Airway_Air-
wayConfirmationGroup].[Dim_Airway_PK]
LEFT JOIN [DwEms].[Dim_AirwayConfirmationGroup] AS [Dim_AirwayConfirmationGroup] ON
[Bridge_Airway_AirwayConfirmationGroup].[Dim_AirwayConfirmationGroup_PK] = [Dim_Air-
wayConfirmationGroup].[Dim_AirwayConfirmationGroup_PK]
LEFT JOIN [dbo].[DSV_Dim_Incident_Date] AS [DSV_Dim_Incident_Date] ON [Fact_Incident].[Dim_
Incident_Date_FK] = [DSV_Dim_Incident_Date].[Dim_Incident_Date_FK]
LEFT JOIN [dbo].[DSV_Dim_Incident_Time_Of_Day] AS [DSV_Dim_Incident_Time_Of_Day] ON [Fact_
Incident].[Dim_Incident_TimeOfDay_FK] = [DSV_Dim_Incident_Time_Of_Day].[Dim_Incident_Time_
Of_Day_PK]
LEFT JOIN [DwEms].[Dim_CardiacArrest] AS [Dim_CardiacArrest] ON [Fact_Incident].[Dim_Car-
diacArrest_FK] = [Dim_CardiacArrest].[Dim_Cardiac_Arrest_PK]
LEFT JOIN [DwEms].[Bridge_Incident_PatientExam] AS [Bridge_Incident_PatientExam] ON [Fact_
Incident].[Fact_Incident_PK] = [Bridge_Incident_PatientExam].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_PatientExam] AS [Dim_PatientExam] ON [Bridge_Incident_PatientExam].
[Dim_PatientExam_PK] = [Dim_PatientExam].[Dim_PatientExam_PK]
LEFT JOIN [DwEms].[Bridge_PatientExam_PatientExamExtremityGroup] AS [Bridge_PatientExam_
PatientExamExtremityGroup] ON [Dim_PatientExam].[Dim_PatientExam_PK] = [Bridge_PatientExam_
PatientExamExtremityGroup].[Dim_PatientExam_PK]
LEFT JOIN [DwEms].[Dim_PatientExamExtremityGroup] AS [Dim_PatientExamExtremityGroup] ON
[Bridge_PatientExam_PatientExamExtremityGroup].[Dim_PatientExamExtremityGroup_PK] = [Dim_
PatientExamExtremityGroup].[Dim_PatientExamExtremityGroup_PK]
LEFT JOIN [DwEms].[Bridge_PatientExam_PatientExamEyeGroup] AS [Bridge_PatientExam_
PatientExamEyeGroup] ON [Dim_PatientExam].[Dim_PatientExam_PK] = [Bridge_PatientExam_
PatientExamEyeGroup].[Dim_PatientExam_PK]
LEFT JOIN [DwEms].[Dim_PatientExamEyeGroup] AS [Dim_PatientExamEyeGroup] ON [Bridge_
PatientExam_PatientExamEyeGroup].[Dim_PatientExamEyeGroup_PK] = [Dim_PatientExamEyeGroup].
[Dim_PatientExamEyeGroup_PK]
LEFT JOIN [DwEms].[Bridge_PatientExam_PatientExamSpineGroup] AS [Bridge_PatientExam_
PatientExamSpineGroup] ON [Dim_PatientExam].[Dim_PatientExam_PK] = [Bridge_PatientExam_
PatientExamSpineGroup].[Dim_PatientExam_PK]
LEFT JOIN [DwEms].[Dim_PatientExamSpineGroup] AS [Dim_PatientExamSpineGroup] ON [Bridge_
PatientExam_PatientExamSpineGroup].[Dim_PatientExamSpineGroup_PK] = [Dim_
PatientExamSpineGroup].[Dim_PatientExamSpineGroup_PK]
LEFT JOIN [DwEms].[Bridge_Incident_CrewMember] AS [Bridge_Incident_CrewMember] ON [Fact_
Incident].[Fact_Incident_PK] = [Bridge_Incident_CrewMember].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_CrewMember] AS [Dim_CrewMember] ON [Bridge_Incident_CrewMember].
[Dim_CrewMember_PK] = [Dim_CrewMember].[Dim_Crew_Member_PK]
LEFT JOIN [DwEms].[Dim_Outcome] AS [Dim_Outcome] ON [Fact_Incident].[Dim_Outcome_FK] =
[Dim_Outcome].[Dim_Outcome_PK]
LEFT JOIN [DwEms].[Bridge_Outcome_OutcomeExternalDataGroup] AS [Bridge_Outcome_Out-
comeExternalDataGroup] ON [Dim_Outcome].[Dim_Outcome_PK] = [Bridge_Outcome_
```

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```
OutcomeExternalDataGroup].[Dim_Outcome_PK]
LEFT JOIN [DwEms].[Dim_OutcomeExternalDataGroup] AS [Dim_OutcomeExternalDataGroup] ON
[Bridge_Outcome_OutcomeExternalDataGroup].[Dim_OutcomeExternalDataGroup_PK] = [Dim_Out-
comeExternalDataGroup].[Dim_OutcomeExternalDataGroup_PK]
LEFT JOIN [DwEms].[Dim_PatientHistory] AS [Dim_PatientHistory] ON [Fact_Incident].[Dim_
PatientHistory_FK] = [Dim_PatientHistory].[Dim_PatientHistory_PK]
LEFT JOIN [DwEms].[Bridge_PatientHistory_PatientHistoryCurrentMedicationsGroup] AS [Bridge_
PatientHistory_PatientHistoryCurrentMedicationsGroup] ON [Dim_PatientHistory].[Dim_
PatientHistory_PK] = [Bridge_PatientHistory_PatientHistoryCurrentMedicationsGroup].[Dim_
PatientHistory_PK]
LEFT JOIN [DwEms].[Dim_PatientHistoryCurrentMedicationsGroup] AS [Dim_PatientHis-
toryCurrentMedicationsGroup] ON [Bridge_PatientHistory_PatientHis-
toryCurrentMedicationsGroup].[Dim_PatientHistoryCurrentMedicationsGroup_PK] = [Dim_
PatientHistoryCurrentMedicationsGroup].[Dim_PatientHistoryCurrentMedicationsGroup_PK]
LEFT JOIN [DwEms].[Bridge_PatientHistory_PatientHistoryImmunizationsGroup] AS [Bridge_
PatientHistory_PatientHistoryImmunizationsGroup] ON [Dim_PatientHistory].[Dim_PatientHis-
tory_PK] = [Bridge_PatientHistory_PatientHistoryImmunizationsGroup].[Dim_PatientHistory_PK]
LEFT JOIN [DwEms].[Dim_PatientHistoryImmunizationsGroup] AS [Dim_PatientHis-
toryImmunizationsGroup] ON [Bridge_PatientHistory_PatientHistoryImmunizationsGroup].[Dim_
PatientHistoryImmunizationsGroup_PK] = [Dim_PatientHistoryImmunizationsGroup].[Dim_
PatientHistoryImmunizationsGroup_PK]
LEFT JOIN [DwEms].[Bridge_PatientHistory_PatientHistoryPractitionerGroup] AS [Bridge_
PatientHistory_PatientHistoryPractitionerGroup] ON [Dim_PatientHistory].[Dim_PatientHis-
tory_PK] = [Bridge_PatientHistory_PatientHistoryPractitionerGroup].[Dim_PatientHistory_PK]
LEFT JOIN [DwEms].[Dim_PatientHistoryPractitionerGroup] AS [Dim_PatientHis-
toryPractitionerGroup] ON [Bridge_PatientHistory_PatientHistoryPractitionerGroup].[Dim_
PatientHistoryPractitionerGroup_PK] = [Dim_PatientHistoryPractitionerGroup].[Dim_PatientHis-
toryPractitionerGroup_PK]
LEFT JOIN [DwEms].[Bridge_Incident_Protocol] AS [Bridge_Incident_Protocol] ON [Fact_Incid-
ent].[Fact_Incident_PK] = [Bridge_Incident_Protocol].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Protocol] AS [Dim_Protocol] ON [Bridge_Incident_Protocol].[Dim_Pro-
tocol_PK] = [Dim_Protocol].[Dim_Protocol_PK]
LEFT JOIN [DwEms].[Bridge_Incident_Signature] AS [Bridge_Incident_Signature] ON [Fact_Incid-
ent].[Fact_Incident_PK] = [Bridge_Incident_Signature].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Payment] AS [Dim_Payment] ON [Fact_Incident].[Dim_Payment_FK] =
[Dim_Payment].[Dim_Payment_PK]
LEFT JOIN [DwEms].[Bridge_Payment_PaymentInsuranceGroup] AS [Bridge_Payment_Pay-
mentInsuranceGroup] ON [Dim_Payment].[Dim_Payment_PK] = [Bridge_Payment_Pay-
mentInsuranceGroup].[Dim_Payment_PK]
LEFT JOIN [DwEms].[Dim_PaymentInsuranceGroup] AS [Dim_PaymentInsuranceGroup] ON [Bridge_Pay-
ment_PaymentInsuranceGroup].[Dim_PaymentInsuranceGroup_PK] = [Dim_PaymentInsuranceGroup].
[Dim_PaymentInsuranceGroup_PK]
LEFT JOIN [DwEms].[Bridge_Payment_PaymentSupplyItemGroup] AS [Bridge_Payment_Pay-
mentSupplyItemGroup] ON [Dim_Payment].[Dim_Payment_PK] = [Bridge_Payment_Pay-
mentSupplyItemGroup].[Dim_Payment_PK]
LEFT JOIN [DwEms].[Dim_PaymentSupplyItemGroup] AS [Dim_PaymentSupplyItemGroup] ON [Bridge_
Payment_PaymentSupplyItemGroup].[Dim_PaymentSupplyItemGroup_PK] = [Dim_Pay-
mentSupplyItemGroup].[Dim_PaymentSupplyItemGroup_PK]
LEFT JOIN [DwEms].[Bridge_Incident_ControlledSubstance] AS [Bridge_Incident_Con-
trolledSubstance] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Con-
trolledSubstance].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_ControlledSubstance] AS [Dim_ControlledSubstance] ON [Bridge_Incid-
ent_ControlledSubstance].[Dim_ControlledSubstance_PK] = [Dim_ControlledSubstance].[Dim_Con-
trolledSubstance_PK]
LEFT JOIN [DwEms].[Dim_InjuryDetails] AS [Dim_InjuryDetails] ON [Fact_Incident].[Dim_
InjuryDetails_FK] = [Dim_InjuryDetails].[Dim_Injury_Details_PK]
LEFT JOIN [DwEms].[Bridge_InjuryDetails_InjuryDetailsDeltaVelocityGroup] AS [Bridge_
```

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```
InjuryDetails_InjuryDetailsDeltaVelocityGroup] ON [Dim_InjuryDetails].[Dim_Injury_Details_
PK] = [Bridge_InjuryDetails_InjuryDetailsDeltaVelocityGroup].[Dim_Injury_Details_PK]
LEFT JOIN [DwEms].[Dim_InjuryDetailsDeltaVelocityGroup] AS [Dim_InjuryDe-
tailsDeltaVelocityGroup] ON [Bridge_InjuryDetails_InjuryDetailsDeltaVelocityGroup].[Dim_
InjuryDetailsDeltaVelocityGroup_PK] = [Dim_InjuryDetailsDeltaVelocityGroup].[Dim_Injury_
DetailsDeltaVelocityGroup_PK]
LEFT JOIN [DwEms].[Bridge_PatientExam_PatientExamAbdomenGroup] AS [Bridge_PatientExam_
PatientExamAbdomenGroup] ON [Dim_PatientExam].[Dim_PatientExam_PK] = [Bridge_PatientExam_
PatientExamAbdomenGroup].[Dim_PatientExam_PK]
LEFT JOIN [DwEms].[Dim_PatientExamAbdomenGroup] AS [Dim_PatientExamAbdomenGroup] ON
[Bridge_PatientExam_PatientExamAbdomenGroup].[Dim_PatientExamAbdomenGroup_PK] = [Dim_
PatientExamAbdomenGroup].[Dim_PatientExamAbdomenGroup_PK]
LEFT JOIN [DwEms].[Dim_Scene] AS [Dim_Scene] ON [Fact_Incident].[Dim_Scene_FK] = [Dim_
Scene].[Dim_Scene_PK]
LEFT JOIN [DwEms].[Bridge_Scene_SceneResponderGroup] AS [Bridge_Scene_SceneResponderGroup]
ON [Dim_Scene].[Dim_Scene_PK] = [Bridge_Scene_SceneResponderGroup].[Dim_Scene_PK]
LEFT JOIN [DwEms].[Dim_SceneResponderGroup] AS [Dim_SceneResponderGroup] ON [Bridge_Scene_
SceneResponderGroup].[Dim_SceneResponderGroup_PK] = [Dim_SceneResponderGroup].[Dim_Scene_
Response_Group_PK]
LEFT JOIN [DwEms].[Dim_VitalsHighLowInitLast] AS [Dim_VitalsHighLowInitLast] ON [Fact_Incid-
ent].[Dim_VitalsHighLowInitLast_FK] = [Dim_VitalsHighLowInitLast].[Dim_Vit-
alsHighLowInitLast_PK]
LEFT JOIN [DwEms].[Dim_Signature] AS [Dim_Signature] ON [Bridge_Incident_Signature].[Dim_
Signature_PK] = [Dim_Signature].[Dim_Signature_PK]
LEFT JOIN [DwEms].[Dim_Narrative] AS [Dim_Narrative] ON [Fact_Incident].[Dim_Narrative_FK]
= [Dim_Narrative].[Dim_Narrative_PK]
LEFT JOIN [DwEms].[Bridge_Incident_Device] AS [Bridge_Incident_Device] ON [Fact_Incident].
[Fact_Incident_PK] = [Bridge_Incident_Device].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_Device] AS [Dim_Device] ON [Bridge_Incident_Device].[Dim_Device_PK]
= [Dim_Device].[Dim_Device_PK]
LEFT JOIN [DwEms].[Dim_Incident_One_To_One] AS [Dim_Incident_One_To_One] ON [Fact_Incid-
ent].[Dim_Incident_One_To_One_PK] = [Dim_Incident_One_To_One].[Dim_Incident_One_To_One_PK]
FULL JOIN [DwEms].[Dim_EMS_CAD] AS [Dim_EMS_CAD] ON [Fact_Incident].[CAD_ID_FK] = [Dim_EMS_
CAD].[Dim_CAD_PK]
LEFT JOIN [DwEms].[Bridge_Incident_IncidentStatus] AS [Bridge_Incident_IncidentStatus] ON
[Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_IncidentStatus].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_IncidentStatus] AS [Dim_IncidentStatus] ON [Bridge_Incident_Incid-
entStatus].[Dim_IncidentStatus_PK] = [Dim_IncidentStatus].[Dim_IncidentStatus_PK]
LEFT JOIN [DwEms].[Dim_IncidentSupplementalQuestions] AS [Dim_Incid-
entSupplementalQuestions] ON [Fact_Incident].[Dim_IncidentSupplementalQuestions_FK] = [Dim_
IncidentSupplementalQuestions].[Dim_IncidentSupplementalQuestions_PK]
LEFT JOIN [DwEms].[Dim_IncidentSupplementalQuestions1] AS [Dim_Incid-
entSupplementalQuestions1] ON [Fact_Incident].[Dim_IncidentSupplementalQuestions1_FK] =
[Dim_IncidentSupplementalQuestions1].[Dim_IncidentSupplementalQuestions1_PK]
LEFT JOIN [DwEms].[Bridge_Incident_WorksheetQuestions] AS [Bridge_Incident_Work-
sheetQuestions] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Work-
sheetQuestions].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_IncidentWorksheetQuestions] AS [Dim_IncidentWorksheetQuestions] ON
[Bridge_Incident_WorksheetQuestions].[Dim_WorksheetQuestions_PK] = [Dim_Incid-
entWorksheetQuestions].[Dim_IncidentWorksheetQuestions_PK]
LEFT JOIN [DwEms].[Dim_IncidentWorksheetQuestions1] AS [Dim_IncidentWorksheetQuestions1] ON
[Bridge_Incident_WorksheetQuestions].[Dim_WorksheetQuestions_PK] = [Dim_Incid-
entWorksheetQuestions1].[Dim_IncidentWorksheetQuestions1_PK]
LEFT JOIN [DwEms].[Dim_IncidentWorksheetQuestions2] AS [Dim_IncidentWorksheetQuestions2] ON
[Bridge_Incident_WorksheetQuestions].[Dim_WorksheetQuestions_PK] = [Dim_Incid-
entWorksheetQuestions2].[Dim_IncidentWorksheetQuestions2_PK]
LEFT JOIN [DwEms].[Dim_IncidentSupplementalQuestions2] AS [Dim_
```

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```
IncidentSupplementalQuestions2] ON [Fact_Incident].[Dim_IncidentSupplementalQuestions2_FK]
= [Dim_IncidentSupplementalQuestions2].[Dim_IncidentSupplementalQuestions2_PK]
LEFT JOIN [DwEms].[Bridge_Incident_MedicationOrdered] AS [Bridge_Incident_Medic-
ationOrdered] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_MedicationOrdered].[
Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_MedicationOrdered] AS [Dim_MedicationOrdered] ON [Bridge_Incident_
MedicationOrdered].[Dim_MedicationOrdered_PK] = [Dim_MedicationOrdered].[Dim_Medic-
ationOrdered_PK]
LEFT JOIN [DwEms].[Bridge_Incident_WorksheetQuestionsFieldNotes] AS [Bridge_Incident_Work-
sheetQuestionsFieldNotes] ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_Work-
sheetQuestionsFieldNotes].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_IncidentWorksheetQuestionsFieldNotes] AS [Dim_Incid-
entWorksheetQuestionsFieldNotes] ON [Bridge_Incident_WorksheetQuestionsFieldNotes].[Dim_
WorksheetQuestionsFieldNotes_PK] = [Dim_IncidentWorksheetQuestionsFieldNotes].[Dim_Incid-
entWorksheetQuestionsFieldNotes_PK]
LEFT JOIN [DwEms].[Dim_IncidentWorksheetQuestionsFieldNotes1] AS [Dim_Incid-
entWorksheetQuestionsFieldNotes1] ON [Bridge_Incident_WorksheetQuestionsFieldNotes].[Dim_
WorksheetQuestionsFieldNotes_PK] = [Dim_IncidentWorksheetQuestionsFieldNotes1].[Dim_Incid-
entWorksheetQuestionsFieldNotes1_PK]
LEFT JOIN [DwEms].[Dim_IncidentWorksheetQuestionsFieldNotes2] AS [Dim_Incid-
entWorksheetQuestionsFieldNotes2] ON [Bridge_Incident_WorksheetQuestionsFieldNotes].[Dim_
WorksheetQuestionsFieldNotes_PK] = [Dim_IncidentWorksheetQuestionsFieldNotes2].[Dim_Incid-
entWorksheetQuestionsFieldNotes2_PK]
LEFT JOIN [DwEms].[Bridge_Agency_AgencyNoEmsIncident] AS [Bridge_Agency_AgencyNoEm-
sIncident] ON [Dim_Agency].[Dim_Agency_PK] = [Bridge_Agency_AgencyNoEmsIncident].[Dim_
Agency_PK]
LEFT JOIN [DwEms].[Dim_AgencyNoEmsIncident] AS [Dim_AgencyNoEmsIncident] ON [Bridge_Agency_
AgencyNoEmsIncident].[Dim_AgencyNoEmsIncident_PK] = [Dim_AgencyNoEmsIncident].[Dim_
AgencyNoEmsIncident_PK]
LEFT JOIN [DwEms].[Bridge_Agency_AgencyNoFireIncident] AS [Bridge_Agency_AgencyNoFireIn-
cident] ON [Dim_Agency].[Dim_Agency_PK] = [Bridge_Agency_AgencyNoFireIncident].[Dim_Agency_
PK]
LEFT JOIN [DwEms].[Dim_AgencyNoFireIncident] AS [Dim_AgencyNoFireIncident] ON [Bridge_
Agency_AgencyNoFireIncident].[Dim_AgencyNoFireIncident_PK] = [Dim_AgencyNoFireIncident].[
Dim_AgencyNoFireIncident_PK]
LEFT JOIN [DwEms].[Bridge_Agency_AgencyNonFireRelatedIncidents] AS [Bridge_Agency_
AgencyNonFireRelatedIncidents] ON [Dim_Agency].[Dim_Agency_PK] = [Bridge_Agency_
AgencyNonFireRelatedIncidents].[Dim_Agency_PK]
LEFT JOIN [DwEms].[Dim_AgencyNonFireRelatedIncidents] AS [Dim_AgencyNonFireRelatedIn-
cidents] ON [Bridge_Agency_AgencyNonFireRelatedIncidents].[Dim_AgencyNonFireRelatedIn-
cidents_PK] = [Dim_AgencyNonFireRelatedIncidents].[Dim_AgencyNonFireRelatedIncidents_PK]
LEFT JOIN [DwEms].[Bridge_Incident_ProcedureOrdered] AS [Bridge_Incident_ProcedureOrdered]
ON [Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_ProcedureOrdered].[Fact_Incident_
PK]
LEFT JOIN [DwEms].[Dim_ProcedureOrdered] AS [Dim_ProcedureOrdered] ON [Bridge_Incident_Pro-
cedureOrdered].[Dim_ProcedureOrdered_PK] = [Dim_ProcedureOrdered].[Dim_ProcedureOrdered_PK]
LEFT JOIN [DwEms].[Bridge_Incident_ValidationRules] AS [Bridge_Incident_ValidationRules] ON
[Fact_Incident].[Fact_Incident_PK] = [Bridge_Incident_ValidationRules].[Fact_Incident_PK]
LEFT JOIN [DwEms].[Dim_ValidationRules] AS [Dim_ValidationRules] ON [Bridge_Incident_Val-
idationRules].[Dim_ValidationRules_PK] = [Dim_ValidationRules].[Dim_ValidationRules_PK]

;

GO
```


1.6 SQL VIEW FOR FIRE DATA

The following information is intended to give clients who have purchased the ImageTrend Data Mart for reporting an understanding of the relationships of the tables within the reporting database for Elite systems with Fire.

This data requires an understanding of Microsoft SQL and database structure and is not intended for individuals who are not comfortable working with SQL.

```
CREATE VIEW [dbo].[DSV_Elite_Fire_View]
AS
SELECT Fact_Fire.*
FROM [DwFire].[Fact_Fire]
LEFT JOIN [DwFire].[Dim_Basic] AS [Dim_Basic] ON [Fact_Fire].[Dim_Basic_FK] = [Dim_Basic].[Dim_Basic_PK]
LEFT JOIN [DwFire].[Dim_Fire] AS [Dim_Fire] ON [Fact_Fire].[Dim_Fire_FK] = [Dim_Fire].[Dim_Fire_PK]
LEFT JOIN [DwFire].[Dim_StructureFire] AS [Dim_StructureFire] ON [Fact_Fire].[Dim_StructureFire_FK] = [Dim_StructureFire].[Dim_StructureFire_PK]
LEFT JOIN [DwFire].[Bridge_Fire_CivilianCasualty] AS [Bridge_Fire_CivilianCasualty] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_CivilianCasualty].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_CivilianCasualty] AS [Dim_CivilianCasualty] ON [Bridge_Fire_CivilianCasualty].[Dim_CivilianCasualty_PK] = [Dim_CivilianCasualty].[Dim_CivilianCasualty_PK]
LEFT JOIN [DwFire].[Bridge_Fire_FireServiceCasualty] AS [Bridge_Fire_FireServiceCasualty] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_FireServiceCasualty].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_FireServiceCasualty] AS [Dim_FireServiceCasualty] ON [Bridge_Fire_FireServiceCasualty].[Dim_FireServiceCasualty_PK] = [Dim_FireServiceCasualty].[Dim_FireServiceCasualty_PK]
LEFT JOIN [DwFire].[Bridge_Fire_ApparatusResources] AS [Bridge_Fire_ApparatusResources] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_ApparatusResources].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_ApparatusResources] AS [Dim_ApparatusResources] ON [Bridge_Fire_ApparatusResources].[Dim_ApparatusResources_PK] = [Dim_ApparatusResources].[Dim_ApparatusResources_PK]
LEFT JOIN [DwFire].[Bridge_ApparatusResources_ApparatusPersonnel] AS [Bridge_ApparatusResources_ApparatusPersonnel] ON [Dim_ApparatusResources].[Dim_ApparatusResources_PK] = [Bridge_ApparatusResources_ApparatusPersonnel].[Dim_ApparatusResources_PK]
LEFT JOIN [DwFire].[Dim_ApparatusPersonnel] AS [Dim_ApparatusPersonnel] ON [Bridge_ApparatusResources_ApparatusPersonnel].[Dim_ApparatusPersonnel_PK] = [Dim_ApparatusPersonnel].[Dim_ApparatusPersonnel_PK]
LEFT JOIN [DwFire].[Bridge_Basic_BasicNarrativeOther] AS [Bridge_Basic_BasicNarrativeOther] ON [Dim_Basic].[Dim_Basic_PK] = [Bridge_Basic_BasicNarrativeOther].[Dim_Basic_PK]
LEFT JOIN [DwFire].[Dim_BasicNarrativeOther] AS [Dim_BasicNarrativeOther] ON [Bridge_Basic_BasicNarrativeOther].[Dim_BasicNarrativeOther_PK] = [Dim_BasicNarrativeOther].[Dim_BasicNarrativeOther_PK]
LEFT JOIN [DwFire].[Bridge_Basic_BasicPersonInvolved] AS [Bridge_Basic_BasicPersonInvolved] ON [Dim_Basic].[Dim_Basic_PK] = [Bridge_Basic_BasicPersonInvolved].[Dim_Basic_PK]
LEFT JOIN [DwFire].[Dim_BasicPersonInvolved] AS [Dim_BasicPersonInvolved] ON [Bridge_Basic_BasicPersonInvolved].[Dim_BasicPersonInvolved_PK] = [Dim_BasicPersonInvolved].[Dim_BasicPersonInvolved_PK]
LEFT JOIN [DwFire].[Dim_Arson] AS [Dim_Arson] ON [Fact_Fire].[Dim_Arson_FK] = [Dim_Arson].[Dim_Arson_PK]
LEFT JOIN [DwFire].[Bridge_Fire_ArsonJuvenileArsonist] AS [Bridge_Fire_ArsonJuvenileArsonist] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_ArsonJuvenileArsonist].[Fact_Fire_PK]
```


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```
LEFT JOIN [DwFire].[Dim_ArsonJuvenileArsonist] AS [Dim_ArsonJuvenileArsonist] ON [Bridge_Fire_ArsonJuvenileArsonist].[Dim_ArsonJuvenileArsonist_PK] = [Dim_ArsonJuvenileArsonist].[Dim_ArsonJuvenileArsonist_PK]
LEFT JOIN [DwFire].[Bridge_Fire_HazMat] AS [Bridge_Fire_HazMat] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_HazMat].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_HazMat] AS [Dim_HazMat] ON [Bridge_Fire_HazMat].[Dim_HazMat_PK] = [Dim_HazMat].[Dim_HazMat_PK]
LEFT JOIN [DwFire].[Bridge_Fire_HazMatDetail] AS [Bridge_Fire_HazMatDetail] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_HazMatDetail].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_HazMatDetail] AS [Dim_HazMatDetail] ON [Bridge_Fire_HazMatDetail].[Dim_HazMatDetail_PK] = [Dim_HazMatDetail].[Dim_HazMatDetail_PK]
LEFT JOIN [DwFire].[Bridge_HazMat_HazMatResponsibleParty] AS [Bridge_HazMat_HazMatResponsibleParty] ON [Dim_HazMat].[Dim_HazMat_PK] = [Bridge_HazMat_HazMatResponsibleParty].[Dim_HazMat_PK]
LEFT JOIN [DwFire].[Dim_HazMatResponsibleParty] AS [Dim_HazMatResponsibleParty] ON [Bridge_HazMat_HazMatResponsibleParty].[Dim_HazMatResponsibleParty_PK] = [Dim_HazMatResponsibleParty].[Dim_HazMatResponsibleParty_PK]
LEFT JOIN [DwFire].[Bridge_Fire_EMS] AS [Bridge_Fire_EMS] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_EMS].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_EMS] AS [Dim_EMS] ON [Bridge_Fire_EMS].[Dim_EMS_PK] = [Dim_EMS].[Dim_EMS_PK]
LEFT JOIN [DwFire].[Dim_Wildland] AS [Dim_Wildland] ON [Fact_Fire].[Dim_Wildland_FK] = [Dim_Wildland].[Dim_Wildland_PK]
LEFT JOIN [DwFire].[Bridge_Fire_FireAttachment] AS [Bridge_Fire_FireAttachment] ON [Fact_Fire].[Fact_Fire_PK] = [Bridge_Fire_FireAttachment].[Fact_Fire_PK]
LEFT JOIN [DwFire].[Dim_FireAttachment] AS [Dim_FireAttachment] ON [Bridge_Fire_FireAttachment].[Dim_FireAttachment_PK] = [Dim_FireAttachment].[Dim_FireAttachment_PK]
LEFT JOIN [DwFire].[Bridge_FireServiceCasualty_FireServiceCasualtyProtectiveEquipment] AS [Bridge_FireServiceCasualty_FireServiceCasualtyProtectiveEquipment] ON [Dim_FireServiceCasualty].[Dim_FireServiceCasualty_PK] = [Bridge_FireServiceCasualty_FireServiceCasualtyProtectiveEquipment].[Dim_FireServiceCasualty_PK]
LEFT JOIN [DwFire].[Dim_FireServiceCasualtyProtectiveEquipment] AS [Dim_FireServiceCasualtyProtectiveEquipment] ON [Bridge_FireServiceCasualty_FireServiceCasualtyProtectiveEquipment].[Dim_FireServiceCasualtyProtectiveEquipment_PK] = [Dim_FireServiceCasualtyProtectiveEquipment].[Dim_FireServiceCasualtyProtectiveEquipment_PK]
LEFT JOIN [DwEms].[Dim_Agency] AS [Dim_Agency] ON [Fact_Fire].[Dim_Agency_FK] = [Dim_Agency].[Dim_Agency_PK]
--LEFT JOIN [DwFire].[Dim_Permission_AllFireAgency] AS [Dim_Permission_AllFireAgency] ON [Fact_Fire].[Dim_Agency_FK] = [Dim_Permission_AllFireAgency].[Dim_Agency_PK] and Dim_Permission_AllFireAgency.Performer_ID_Internal = '#getUserID()#'
--LEFT JOIN [DwFire].[Dim_Permission_MyFire] AS [Dim_Permission_MyFire] ON [Fact_Fire].[Fact_Fire_PK] = [Dim_Permission_MyFire].[Fact_Fire_PK] and Dim_Permission_MyFire.Performer_ID_Internal = '#getUserID()#'
--LEFT JOIN [DwFire].[Dim_Permission_OtherFire] AS [Dim_Permission_OtherFire] ON [Fact_Fire].[Fact_Fire_PK] = [Dim_Permission_OtherFire].[Fact_Fire_PK] and Dim_Permission_OtherFire.Performer_ID_Internal = '#getUserID()#'
LEFT JOIN [dbo].[DSV_Dim_Incident_Date_Fire] AS [DSV_Dim_Incident_Date_Fire] ON [Fact_Fire].[Dim_Date_Fire_PK] = [DSV_Dim_Incident_Date_Fire].[Dim_Incident_Date_Fire_FK]
LEFT JOIN [dbo].[DSV_Dim_Incident_Time_Of_Day_Fire] AS [DSV_Dim_Incident_Time_Of_Day_Fire] ON [Fact_Fire].[Dim_TimeOfDay_Fire_PK] = [DSV_Dim_Incident_Time_Of_Day_Fire].[Dim_Incident_Time_Of_Day_Fire_PK]
FULL JOIN [DwFire].[Dim_Fire_CAD] AS [Dim_Fire_CAD] ON [Fact_Fire].[CAD_ID_FK] = [Dim_Fire_CAD].[Dim_Fire_CAD_PK]
LEFT JOIN [DwFire].[Bridge_FireCAD_Apparatus] AS [Bridge_FireCAD_Apparatus] ON [Dim_Fire_CAD].[Dim_Fire_CAD_PK] = [Bridge_FireCAD_Apparatus].[Dim_Fire_CAD_PK]
LEFT JOIN [DwFire].[Dim_Fire_CAD_Apparatus] AS [Dim_Fire_CAD_Apparatus] ON [Bridge_FireCAD_Apparatus].[Bridge_FireCAD_Apparatus_PK] = [Dim_Fire_CAD_Apparatus].[Dim_Fire_CAD_
```

```
Apparatus_PK]
--where (Dim_Permission_AllFireAgency.Performer_ID_Internal is not null or Dim_Permission_
MyFire.Performer_ID_Internal is not null or Dim_Permission_OtherFire.Performer_ID_Internal
is not null) and Dim_Agency.Agency_Is_Demo_Service != 1
GO
```

1.7 DATA MART FAQs

I don't know SQL. What do I do?

ImageTrend's Data Mart add-on is functionality which provides your organization with a copy of your reporting database, which is built on Microsoft SQL. Using the reporting database does require knowledge of SQL, which is technology owned and managed by Microsoft. As SQL is not built by ImageTrend, ImageTrend does not offer education in SQL or support in learning this technology.

Some strategies that may be helpful if you are unfamiliar with SQL:

- Reach out to your IT department to see if you may have a resource who is familiar with SQL.
- Search for courses dedicated to learning SQL. You may be able to find a course at a local school or continuing education center, or online through websites offering technical courses.

I have the Data Mart for both Elite and Patient Registry. Why do I need to work with separate databases?

Although ImageTrend created and manages both, Elite and Patient Registry are completely separate products. In addition to having separate interfaces and sites, these two products are completely separate behind-the-scenes. They each have their own databases, optimized for the data collected in that system. Just like your login, user profile and permissions for Elite are different from your details for Patient Registry, you will need to access the two databases separately.

I don't have access to the database. Can you give me access?

No. The Data Mart add-on is designed to create a copy of your reporting database on **your organization's** servers. While ImageTrend has limited access to those servers (enough to allow our system to pass the updated database information on), those servers are managed by your organization and we do not have access or authorization to update access to them. Please talk to your IT department or the department that manages those servers to request access.

How do I report on the answers to supplemental questions with my Data Mart data?


Data for supplemental questions is handled differently than any other data point included in the external data source generated from your data mart; for the answers to supplemental questions, the View Query option in Report Writer will not show the correct mappings. To report on the answers to supplemental questions in your external data source, you will need to begin with the query generated with Report Writer, find updated mapping information for several elements from your external data source, and edit

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the Report Writer query with the updated answer table name and column name before you can run that query successfully in your external data source.

To work with supplemental questions from your external Data Mart:

1. Find the name of the supplemental question as entered in Elite.

 **NOTE:** While the name of the question in Report Writer will be similar, the Report Writer column name contains additional information (e.g., the name of the agency) that should not be included in the subsequent steps. You will need to note just the name of the question.

2. Run the View Query action for your report.
3. Run the needed queries on your external data source for each question you want to report on answers for, to get the updated table name and column name. Note the data for the `Answer_Table_Name` and `Answer_Column_Name` portions of the query.

 **NOTE:** Each supplemental question type will have a different table.

Queries to Find the Table Name and Column Name

You can run the following queries on your external data warehouse to find the values to enter in the `Answer_Table_Name` and `Answer_Column_Name` portions of the query for the specific question.

To get the correct mappings, you must fill in the appropriate information for the specific question in the `Question_Text` portion of the below queries; you can copy the question name from the details of the appropriate question in Elite.

FOR EMS SUPPLEMENTAL QUESTIONS:

```
SELECT Question_Text, Answer_Table_Name, Answer_Column_Name,
Answer_Column_Number, Data_Type, Field_Definition_ID_Internal,
ActiveFlag FROM DwEms.Dim_IncidentSupplementalQuestions_RW_Map-
ping
where Question_Text IS NOT NULL
ORDER BY 2 ASC
```

FOR EMS CQI QUESTIONS

```
SELECT Question_Text, Answer_Table_Name, Answer_Column_Name,
Answer_Column_Number, Field_Definition_ID_Internal, ActiveFlag
FROM DwEms.Dim_CQISupplementalQuestions_RW_Mapping
where Question_Text IS NOT NULL
ORDER BY 2 DESC
```

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FOR EMS WORKSHEET QUESTIONS:

```
SELECT Question_Text, Answer_Table_Name, Answer_Column_Name,  
Answer_Column_Number, Field_Definition_ID_Internal, ActiveFlag  
FROM DwEms.Dim_IncidentWorksheetQuestions_RW_Mapping  
where Question_Text IS NOT NULL  
ORDER BY 2 ASC
```

4. Update the `Answer_Table_Name` and `Answer_Column_Name` portions of the query, in the query generated by Report Writer, and then run the query on your data source as normal.

How do I get to my attachment?

The Data Mart includes metadata about attachments (such as the file name and file type), but it does not include the actual file data. If you need the attachment contents, contact ImageTrend about other exports and integrations that allow access to attachment content.