As well as getting data from direct database input, various other sources are used as providers of data.

These sources are interrogated for data on a weekly basis using background Tasks

These sources are:

The **ASPEPRImport** database which is supplied with data from the Trust Data Warehouse.

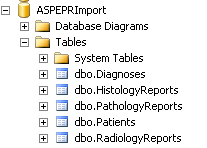
The **SGRQ** database which supplies St Georges data.

The **TIEUSERPROD** database for PAS Demographic data.

**Data Warehouse Data**

The Trust update the Database **ASPEPRImports** on our server once a week. (Updated on a Sunday at 3pm) )

The structure of that database is:



The **Patients** table is basically a copy of the live database **Patients** table and they should be kept in-sync.

The Trust use this table to determine which patients to send data down for.

The used the **RM2Number** field for this, but recently **RM2Number** has been deprecated in favour of the **DistrictNumber.** Now data posted to **ASPEPRImports** has the District Numberimposed on the **RM2Number** field

in the **ASPEPRImports Patients** table. Need to contact Data Warehouse to know how to handle this in the future.

The 2 **Patients** tables need to be kept in-sync for this to work.

At the present this is done from the controller **\Controllers\PatientsController Create action** method

**\_externalImport.Add(ExternalPatient.BuildFromPatient(patient));**

So that when a new patient is added to the database the **ASPEPRImports Patients** table is updated as well as the **AspEPR3 Patients** table.

The data from the **ASPEPRImports** database is used to update tables in **AspEPR3** by using background tasks whichare started from the **Startup.cs** file when the database is started.

The background tasks are run as Chron tasks and are set to run at different time in the week

Registered with DI container in Startup.cs

services.AddScoped<IViewRenderService, ViewRenderService>();

services.AddSingleton<IHostedService,PatientVoriconazoleLevelBackgroundTask>();//monday

services.AddSingleton<IHostedService, ImmunoglobulinUpdateBackgroundTask>(); //runs tuesday

services.AddSingleton<IHostedService, EmptyPostCodesUpdateScheduledTask>(); //runs wednesday

services.AddSingleton<IHostedService, PatientTestResultBackgroundUpdateTask>();//thursday

services.AddSingleton<IHostedService, PatientRadiologyUpdateBackgroundTask>();//friday

services.AddSingleton<IHostedService, >();//saturday services.AddSingleton<IHostedService, PatientSGRQImporterBackgroundTask>();//saturday at 12:15

services.AddSingleton<IHostedService, PatientAdministrationSystemStatusTask>(); //sunday

services.AddHostedService<QueuedHostedService>();

services.AddSingleton<IBackgroundTaskQueue, BackgroundTaskQueue>();

The Data Warehouse data related Tasks are:

**PatientVoriconazoleLevelBackgroundTask** updates table **PatientDrudLevels** from **Pathology Reports**

**ImmunoglobulinUpdateBackgroundTask** updates table **PatientImmunoglobulins** from **PathologyReports**

**PatientTestResultBackgroundUpdateTask** updates table **PatientTestResults** from **PathologyReports**

**PatientRadiologyUpdateBackgroundTask** updates table **PatientRadiologyNotes** from **RadiologyReports**

**PatientICD10DiagnosesBackgroundTask** updates table **PatientICD10Diagnoses** from **Diagnoses**