**Declare an Action delegate called queriesAction**

Action queriesAction = () =>

{

var patientData = QueryPatientData();

var primaryDiagnosis = (from diagnosesCategories in \_aspergillosisContext.DiagnosisCategories

where diagnosesCategories.CategoryName == "Primary"

select new { diagnosesCategories.ID }).Single();

var patientIds = patientData.Select(pd => pd.ID).ToList();

var patientDiagnoses = \_aspergillosisContext.

PatientDiagnoses.

Include(pd => pd.DiagnosisType).

Where(pd => patientIds.Contains(pd.PatientId) && pd.DiagnosisCategoryId == primaryDiagnosis.ID).

ToList();

\_list = patientData.GroupBy(p => p.ID).

Select(a => a.FirstOrDefault()).

ToList<dynamic>();

AppendDiagnosesToPatients(patientDiagnoses);

ColumnSearch();

Sorting();

};

private IQueryable<PatientDataTableViewModel> QueryPatientData()

{

return (from patient in \_aspergillosisContext.Patients

join patientDiagnosis in \_aspergillosisContext.PatientDiagnoses on patient.ID equals patientDiagnosis.PatientId into diagnoses

from patientDiagnosis in diagnoses.DefaultIfEmpty()

join diagnosesTypes in \_aspergillosisContext.DiagnosisTypes on patientDiagnosis.DiagnosisTypeId equals diagnosesTypes.ID

into patientsWithDiagnoses

select new PatientDataTableViewModel()

{

ID = patient.ID,

RM2Number = patient.RM2Number,

DistrictNumber=patient.DistrictNumber,

PrimaryDiagnosis = "",

LastName = patient.LastName,

FirstName = patient.FirstName,

Gender = patient.Gender,

DOB = DateHelper.DateTimeToUnixTimestamp(patient.DOB)

});

}