This document contains a list of SQL statements that may be useful for our project. The goal is to show how to get to any entity given any other entities key, think of it as a map

**Tenant:** (given tenant Key, we’ll call this x)

*Tenant to any tenant attribute*

SELECT (tenant attribute)

FROM TENANT T

WHERE T.tenantKey = x

*Tenant to any landlord attribute*

SELECT (landlord attribute)

FROM TENANT T, LANDLORD L

WHERE T.tenantKey = x AND T.landlordKey = L.LandlordKey

*Tenant to any location attribute*

SELECT (location attribute)

FROM Tenant T, Landlord L, Location Lo

WHERE T.tenantKey = x AND T.landlordKey = L.LandlordKey AND L.locationKey = Lo.locationKey

*Tenant to any service provider attribute*

SELECT (service provider attribute)

FROM Tenant T, Landlord L, Location Lo, LocationtoServiceProvider LoSP, ServiceProvider SP

WHERE T.tenantKey = x AND T.landlordKey = L.LandlordKey AND L.locationKey = Lo.locationKey

AND Lo.locationKey = LoSP.locationKey AND LoSP.serviceProvviderKey = SP.serviceProviderKey

*Tenant to list requests made by tenant*

SELECT \*

FROM Requests R

WHERE R.TenantKey = x

*Tenant to list requests made by claims*

SELECT \*

FROM Claim C, Requests R

WHERE C.RequestID = R.RequestID AND R.TenantKey = x

**Landlord:** (given landlord Key, we’ll call this x)

*Landlord to any landlord attribute*

SELECT (landlord attribute)

FROM LANDLORD L

WHERE L.landlordKey = x

*Landlord to a list of tenants*

SELECT \*

FROM Tenant T

WHERE T.landlordKey = x

*Landlord to any location attribute*

SELECT (location attribute)

FROM Landlord L, Location Lo

WHERE L.landlordKey = x AND L.locationKey = Lo.locationKey

*Landlord to any service provider attribute*

SELECT (service provider attribute)

FROM Landlord L, Location Lo, LocationtoServiceProvider LoSP, ServiceProvider SP

WHERE x = L.LandlordKey AND L.locationKey = Lo.locationKey

AND Lo.locationKey = LoSP.locationKey AND LoSP.serviceProviderKey = SP.serviceProviderKey

*Landlord to list of requests made by the all tenants of this landlord*

SELECT \*

FROM Tenant T, Requests R

WHERE T.landlordKey = x AND R.tenantKey = T.tenantKey

*Landlord to list of claims made by the all tenants of this landlord*

SELECT \*

FROM Tenant T, Requests R, Claim C

WHERE T.landlordKey = x AND R.tenantKey = T.tenantKey AND C.requestID = R.RequestID

**Service Provider:** (given service provider Key, we’ll call this x)

*Service provider to any service provider attribute*

SELECT (SP attribute)

FROM ServiceProvder SP

WHERE SP.serviceProviderKey = x

*Service provider to a list of claims completd by service provider*

SELECT \*

FROM Claim C

WHERE C.serviceProviderKey = x

*Service provider to a list of requests made to service provider*

SELECT \*

FROM Requests R

WHERE R.serviceProviderKey = x

*Service provider to a list of locations that this service provider provides service to*

SELECT \*

FROM locationToServiceProvider LoSP, Location LO

WHERE LoSP.serviceProviderKey = x AND LoSP.locationKey = LO.locationKey

*Service provider to a list of landlord at locations that this service provider provides service to*

SELECT \*

FROM locationToServiceProvider LoSP, Landlord L

WHERE LoSP.serviceProviderKey = x AND LoSP.locationKey = L.locationKey

*Service provider to a list of tenants who have requested service*

SELECT \*

FROM Requests R, Tenant T

WHERE R.serviceProviderKey = x AND R.TenantKey = T.TenantKey

*Service provider to a list of tenants who the service provider has created a claim for*

SELECT \*

FROM Requests R, Claim C, Tenant T

WHERE R.serviceProviderKey = x AND R.TenantKey = T.TenantKey AND C.requestID = R.requestID

*Service provider to a list of tenants at locations that this service provider provides service to*

SELECT \*

FROM locationToServiceProvider LoSP, Landlord L, Tenant T

WHERE LoSP.serviceProviderKey = x AND LoSP.locationKey = L.locationKey

AND L.landlordKey = T.LandlordKey

**Location:** (given location Key, we’ll call this x)

*Location to any location attribute*

SELECT (location attribute)

FROM Location LO

WHERE LO.locationKey = x

*Location to a list of landlords at that location \*should only be one*

SELECT \*

FROM Landlord L

WHERE L.locationKey = x

*Location to a list of tenants at that location*

SELECT \*

FROM Landlord L, Tenant T

WHERE L.locationKey = x AND L.landlordKey – T.landlordKey

*Location to a list of service providers at that location*

SELECT \*

FROM locationToServiceProvider LoSP, serviceProvider SP

WHERE LoSP.locationKey = x AND SP.serviceProviderKey = LoSP.serviceProviderKey

*Location to a list of Requests at that location*

SELECT \*

FROM Requests R

WHERE R.locationKey = x

*Location to a list of claims at that location*

SELECT \*

FROM Requests R, Claim C

WHERE R.locationKey = x AND R.requestID = C.requestID

**Request:** (given request ID, we’ll call this x)

*Request to any Request attribute*

SELECT (request attribute)

FROM Requests R

WHERE R.requestID = x

*Request to any claim attribute from the claim generated by that request*

SELECT (claim attribute)

FROM Claim C

WHERE C.requestID = x

*Request to any Tenant attribute from the tenant who created that request*

SELECT (tenant attribute)

FROM Tenant T, Requests R

WHERE R.requestID = x AND R.tenantKey = T.tenantKey

*Request to any landlord attribute from the landlord of the tenant who created that request*

SELECT (landlord attribute)

FROM Tenant T, Requests R, Landlord L

WHERE R.requestID = x AND R.tenantKey = T.tenantKey AND T.landlordKey = L.landlordKey

*Request to any location attribute at the location the request is at*

SELECT (location attribute)

FROM Requests R, Location LO

WHERE R.requestID = x AND R.locationKey = LO.locationKey

*Request to any service provider attribute for the service provider assigned to the request*

SELECT (SP attribute)

FROM Requests R, serviceProvider SP

WHERE R.requestID = x AND R.serviceProviderKey = SP.serviceProviderKey

**Claim:** (given claim ID, we’ll call this x)

*claim to any claim attribute*

SELECT (claim attribute)

FROM Claim C

WHERE C.claimID = x

*For anything else you want to search for using the claim ID you must move through requests so look to the request SQL statements above*