**Execute each section one in a time.**

//Add Models

MERGE (Aspen:Model {floorplan:'Aspen', bedrooms:2, bathrooms:3,sqft:2500})

MERGE (Frisco:Model {floorplan:'Frisco', bedrooms:3, bathrooms:3,sqft:3000})

MERGE (Vail:Model {floorplan:'Vail', bedrooms:4, bathrooms:4,sqft:4000})

//Add Aspen

MERGE (AspenBedroom1:Room:Bedroom {floorplan:'Aspen',roomname:'Bed1',windows:2, doors:2, drywall\_sqft: 868, electricalwire\_sqft:80,woodflooring\_sqft:196})

MERGE (AspenBedroom2:Room:Bedroom {floorplan:'Aspen',roomname:'Bed2',windows:1, doors:1, drywall\_sqft: 720, electricalwire\_sqft:72,woodflooring\_sqft:150})

MERGE (AspenLivingRoom:Room:LivingRoom {floorplan:'Aspen',roomname:'Living',windows:4, frenchdoors:1, drywall\_sqft: 1200, electricalwire\_sqft:140,woodflooring\_sqft:250})

MERGE (AspenDiningRoom:Room:DiningRoom {floorplan:'Aspen',roomname:'Dining',windows:3, drywall\_sqft: 800, electricalwire\_sqft:80,woodflooring\_sqft:180})

MERGE (AspenKitchen:Room:Kitchen {floorplan:'Aspen',roomname:'Kitchen',windows:2, drywall\_sqft: 800, electricalwire\_sqft:120,tileflooring\_sqft:200,granitecountertop\_sqft:80,tilebacksplash\_sqft:80})

MERGE (AspenBathRoom1:Room:BathRoom {floorplan:'Aspen',roomname:'Bath1',windows:1, toilets:1, sinks:2 , tub:1, shower:1, electricalwire\_sqft:50,tileflooring\_sqft:100})

MERGE (AspenBathRoom2:Room:BathRoom {floorplan:'Aspen',roomname:'Bath2',windows:1, toilets:1, sinks:2 , tub:1, electricalwire\_sqft:50,tileflooring\_sqft:80})

MERGE (AspenBathRoom3:Room:BathRoom {floorplan:'Aspen',roomname:'Bath3',windows:1, toilets:1, sinks:1 , electricalwire\_sqft:30,tileflooring\_sqft:50})

//Add Aspen relationships

MATCH (m:Model),(r:Room)

WHERE m.floorplan = 'Aspen' AND r.floorplan = 'Aspen'

MERGE (m)-[:HAS]->(r)

//Add Frisco

MERGE (FriscoBedroom1:Room:Bedroom {floorplan:'Frisco',roomname:'Bed1',windows:2, doors:2, drywall\_sqft: 868, electricalwire\_sqft:80,woodflooring\_sqft:196})

MERGE (FriscoBedroom2:Room:Bedroom {floorplan:'Frisco',roomname:'Bed2',windows:1, doors:1, drywall\_sqft: 720, electricalwire\_sqft:72,woodflooring\_sqft:150})

MERGE (FriscoBedroom3:Room:Bedroom {floorplan:'Frisco',roomname:'Bed3',windows:1, doors:1, drywall\_sqft: 720, electricalwire\_sqft:72,woodflooring\_sqft:150})

MERGE (FriscoLivingRoom:Room:LivingRoom {floorplan:'Frisco',roomname:'Living',windows:5, frenchdoors:1, drywall\_sqft: 1500, electricalwire\_sqft:180,woodflooring\_sqft:300})

MERGE (FriscoDiningRoom:Room:DiningRoom {floorplan:'Frisco',room:'Dining',roomname:'Dining',windows:3, drywall\_sqft: 800, electricalwire\_sqft:80,woodflooring\_sqft:180})

MERGE (FriscoKitchen:Room:Kitchen {floorplan:'Frisco',room:'Kitchen',roomname:'Kitchen',windows:2, drywall\_sqft: 800, electricalwire\_sqft:120,tileflooring\_sqft:200,granitecountertop\_sqft:80,tilebacksplash\_sqft:80})

MERGE (FriscoBathRoom1:Room:BathRoom {floorplan:'Frisco',room:'Bath',roomname:'Bath1',windows:1, toilets:1, sinks:2 , tub:1, shower:1, electricalwire\_sqft:50,tileflooring\_sqft:100})

MERGE (FriscoBathRoom2:Room:BathRoom {floorplan:'Frisco',room:'Bath',roomname:'Bath2',windows:1, toilets:1, sinks:2 , tub:1, electricalwire\_sqft:50,tileflooring\_sqft:80})

MERGE (FriscoBathRoom3:Room:BathRoom {floorplan:'Frisco',room:'Bath',roomname:'Bath3',windows:1, toilets:1, sinks:1 , electricalwire\_sqft:30,tileflooring\_sqft:50})

//Add Frisco relationships

MATCH (m:Model),(r:Room)

WHERE m.floorplan = 'Frisco' AND r.floorplan = 'Frisco'

MERGE (m)-[:HAS]->(r)

//Add Vail

MERGE (VailBedroom1:Room:Bedroom {floorplan:'Vail',roomname:'Bed1',windows:2, doors:2, drywall\_sqft: 868, electricalwire\_sqft:80,woodflooring\_sqft:196})

MERGE (VailBedroom2:Room:Bedroom {floorplan:'Vail',roomname:'Bed2',windows:2, doors:2, drywall\_sqft: 868, electricalwire\_sqft:80,woodflooring\_sqft:196})

MERGE (VailBedroom3:Room:Bedroom {floorplan:'Vail',roomname:'Bed3',windows:1, doors:1, drywall\_sqft: 720, electricalwire\_sqft:72,woodflooring\_sqft:150})

MERGE (VailBedroom4:Room:Bedroom {floorplan:'Vail',roomname:'Bed4',windows:1, doors:1, drywall\_sqft: 720, electricalwire\_sqft:72,woodflooring\_sqft:150})

MERGE (VailLivingRoom:Room:LivingRoom {floorplan:'Vail',room:'Living',roomname:'LivingRoom',windows:5, frenchdoors:1, drywall\_sqft: 1500, electricalwire\_sqft:180,woodflooring\_sqft:300})

MERGE (VailDiningRoom:Room:DiningRoom {floorplan:'Vail',room:'Dining',roomname:'DiningRoom',windows:3, drywall\_sqft: 800, electricalwire\_sqft:80,woodflooring\_sqft:180})

MERGE (VailKitchen:Room:Kitchen {floorplan:'Vail',room:'Kitchen',roomname:'Kitchen',windows:2, drywall\_sqft: 800, electricalwire\_sqft:120,tileflooring\_sqft:200,granitecountertop\_sqft:80,tilebacksplash\_sqft:80})

MERGE (VailBathRoom1:Room:BathRoom {floorplan:'Vail',room:'Bath',roomname:'Bath1',windows:1, toilets:1, sinks:2 , tub:1, shower:1, electricalwire\_sqft:50,tileflooring\_sqft:100})

MERGE (VailBathRoom2:Room:BathRoom {floorplan:'Vail',room:'Bath',roomname:'Bath2',windows:1, toilets:1, sinks:2 , tub:1, shower:1, electricalwire\_sqft:50,tileflooring\_sqft:100})

MERGE (VailBathRoom3:Room:BathRoom {floorplan:'Vail',room:'Bath',roomname:'Bath3',windows:1, toilets:1, sinks:2 , tub:1, electricalwire\_sqft:50,tileflooring\_sqft:80})

MERGE (VailBathRoom4:Room:BathRoom {floorplan:'Vail',room:'Bath',roomname:'Bath4',windows:1, toilets:1, sinks:1 , electricalwire\_sqft:30,tileflooring\_sqft:50})

//Add Vail relationships

MATCH (m:Model),(r:Room)

WHERE m.floorplan = 'Vail' AND r.floorplan = 'Vail'

MERGE (m)-[:HAS]->(r)