**Data Warehouse Migration**

A large amount of data is accumulated from a wide range of sources within a company and used to guide management decisions. We utilize 3 dimensions to accomplish trends, comparisons, aggregations, and groupings operations.

The fact is the sale of each house built in each lot.

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| **Dimension** | **Description** | **Attributes** |
| House | Anything that can describe the house sold by EggShell | Elevation Type, Street, City, State, Zip, School District ID, Subdivision ID |
| Sales agent | Anything that can describe the salesperson who is responsible for signing the contract. | Employee Name, License Number |
| Date  (Conformed Dimension) | Anything that provides the details of the time frame for the sales fact | Signed\_date, estimated\_accomplished\_date |

In this 3-D model, House\_ID, Employee\_ID, and Date\_ID determine unique processing of house sales, and they can be regarded as unique identifiers of each dimension.

Queries regarding this 3D model

1. Calculate the aggregate average housing sales in different cities. (Aggregate, Trends)

2. Calculate the total sales quantity of one specific sales agent. (Comparison)

3. Calculate the total sales quantity of one specific sales agent by year or month. (Grouping)