

Fields - columns (headers)

Dimensions - subset, field that contains qualitative values (strings, etc) that are used to categorize, segment, or reveal the details in your data. Dimensions are highlighted in blue in Looker.

Measures - subset, numeric quantitative values that you can use to measure, and they can be aggregated. Measures are highlighted in orange in Looker.

LookML makes dimensions and measures for us.

Terminology

Fields vs. Dimensions vs. Measures

Office Office Name	Customer Customer Company Name	Sales Total Hours ↓	Sales Total Sales	Sales Count
1 Detroit	SandHaul	443	\$784,244	7
2 Seattle	Pdump	357	\$536,643	6
3 Orlando	Trashly	323	\$539,560	5
4 Orlando	Blastine	321	\$439,138	5
5 Seattle	BumperTruck	307	\$515,276	6
6 Detroit	Trashly	301	\$529,913	4
7 San Francisco	Supplier	296	\$486,367	5
8 Houston	Bucker	265	\$360,133	6
9 Houston	DumpSpot	261	\$416,139	3
10 Los Angeles	Trashly	251	\$349,327	4
11 Dallas	Sucket	250	\$414,972	3
12 Detroit	Motore	247	\$455,394	4
13 Miami	Tractore	246	\$399,903	3

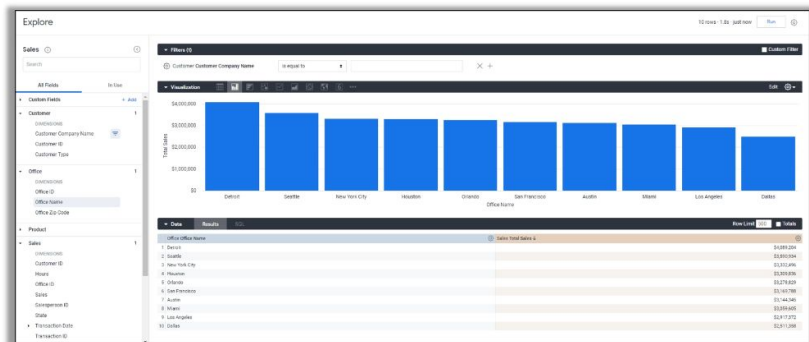
Explores - Looker-specific concept. The starting point for any data exploration and analysis. Capsules for your data. In an Explore, we have our data, our visualization, our filters, our fields.

Looks - Looks are Explores that have been saved. You use Explores to perform an analysis, and a Look is that snapshot that has been saved and can be re-run. You would want to save an Explore to make a Look if you want to run that report at a different point in time (Looks are also called reports).

Dashboards - Dashboards are a compilation of different Looks. Dashboards are also interactive, and you can change up the parameters. Dashboards are a great way to see a lot of data in one place.

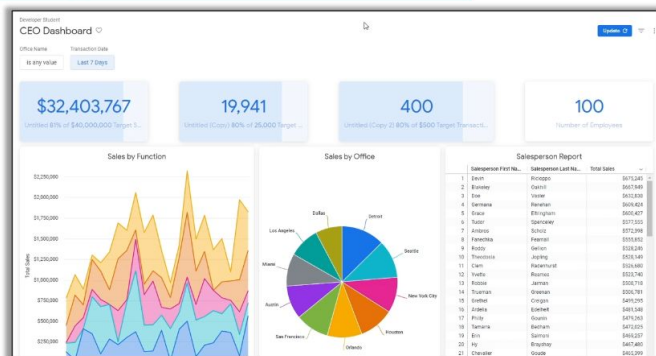
Terminology

Explores vs. Looks vs. Dashboards



Terminology

Explores vs. Looks vs. Dashboards



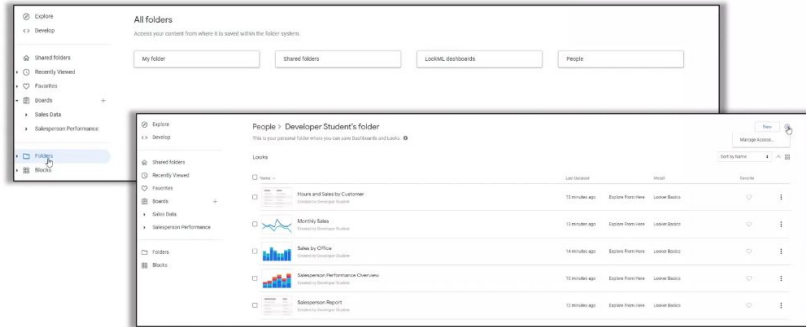
Boards - a Board is used to organize your different Looks. For example, you can pin any Looks related to “Sales” on a Board.

Folders - Folders store your files. You can save Looks in Folders.

Folders are used to store Looks, and Boards are used to organize Looks.

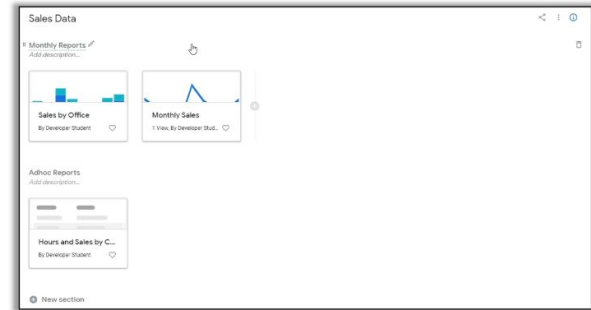
Terminology

Boards vs. Folders



Terminology

Boards vs. Folders



Terminology

LookML vs. SQL

SQL

SQL is a language that lets you access, retrieve, and manipulate data in a SQL-supported database (95% of databases use some flavour of SQL in my opinion)

```
Select office, sum(sales) as total_sales
from sales_data
group by office
```

LookML

LookML is a language for describing dimensions, aggregates, calculations, and data relationships in a SQL database.

Looker uses a model written in LookML to construct SQL queries against a particular database

```
View: sales {
  derived_table: sales_data
```

```
  Dimension: office {
    type: string
    sql: office;;
  }
```

```
  measure: total_sales {
    type: sum
    sql: sales
  }
```

```
}
```

LookML is used to standardize, so someone can make queries without using code. You can still give users access to the raw data, whereas an ETL would only allow users to access a subset of the data.