



Looker Studio

LINE MAN Wongnai: LMVN





Course Outline



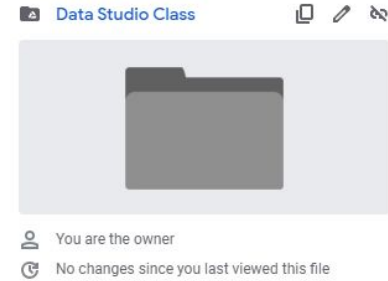
Content

- Data Analyst Workflow
- Review Data Analytics Concepts
- What is Dashboard
- Why use **Looker Studio**
- Types of Visuals in Looker
- Hands-On Tutorial



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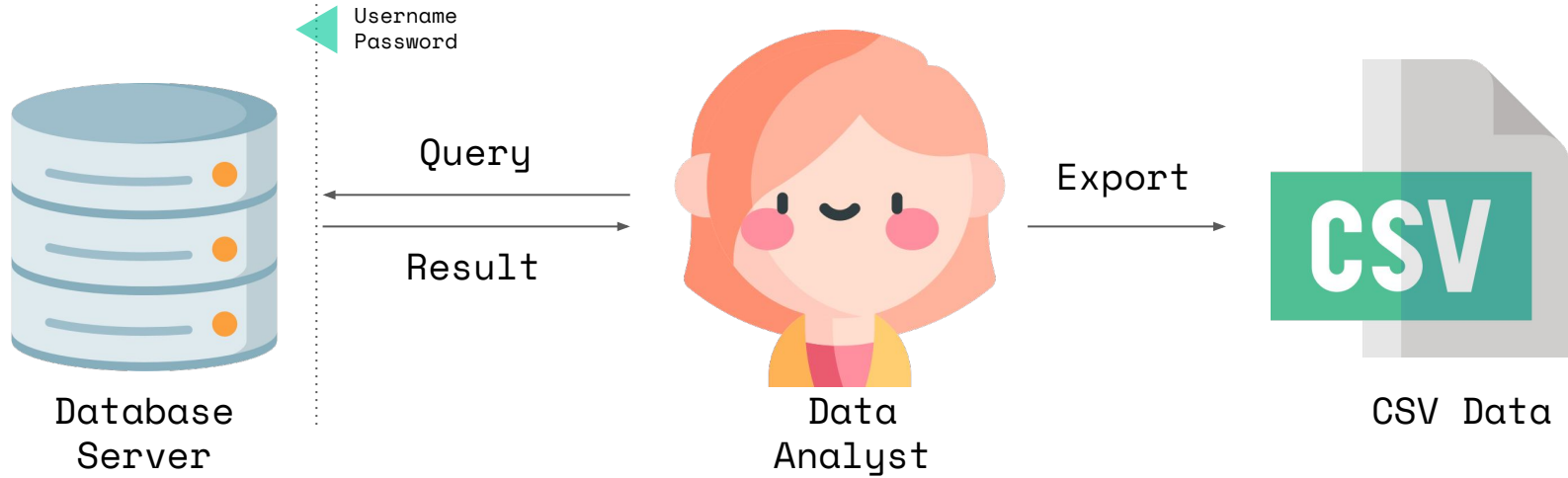




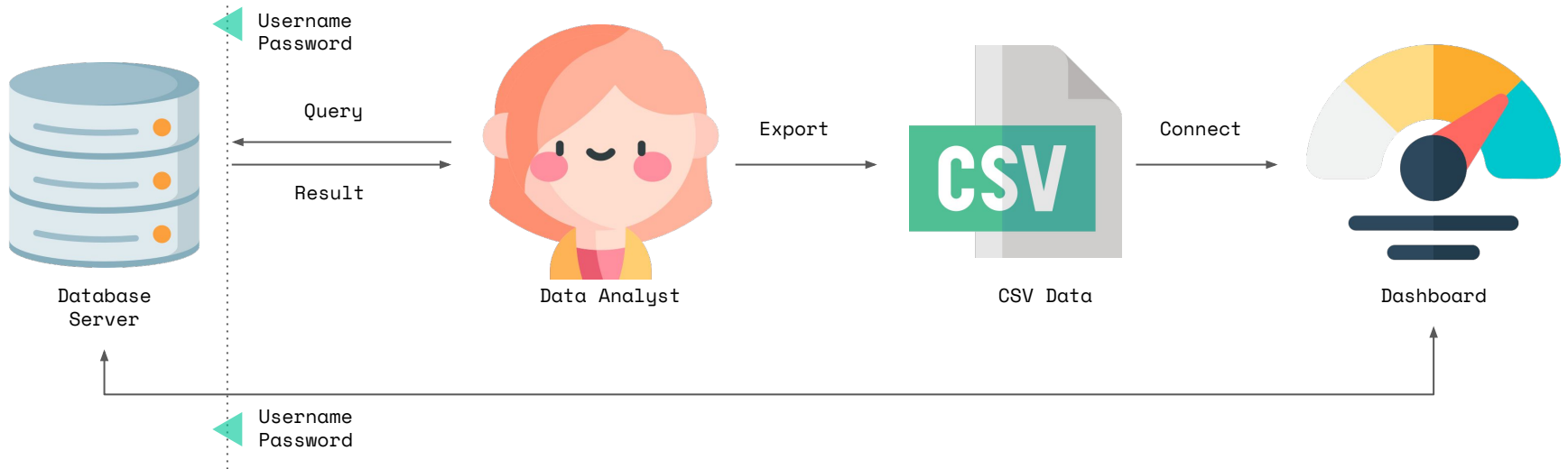
Data Analyst Workflow



Data Analyst Workflow



Data Analyst Workflow V2



Structured data

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer	Customer	Segment	Country	City	State	Postal Cod	Region	Product ID	Category	Sub-Categ	Product N	Sales	Quantity	Discount	Profit
2	1	CA-2016-1	11/8/2016	11/11/2016	Second Cl	CG-12520	Claire Gut	Consumer	United Sta	Henderson	Kentucky	42420	South	FUR-BO-10	Furniture	Bookcases	Bush Some	261.96	2	0	41.9136
3	2	CA-2016-1	11/8/2016	11/11/2016	Second Cl	CG-12520	Claire Gut	Consumer	United Sta	Henderson	Kentucky	42420	South	FUR-CH-10	Furniture	Chairs	Hon Delux	731.94	3	0	219.582
4	3	CA-2016-1	6/12/2016	6/16/2016	Second Cl	DV-13045	Darrin Van	Corporate	United Sta	Los Angeles	California	90036	West	OFF-LA-10	Office Sup	Labels	Self-Adhes	14.62	2	0	6.8714
5	4	US-2015-1	10/11/2015	10/18/2015	Standard C	SO-20335	Sean O'Do	Consumer	United Sta	Fort Laude	Florida	33311	South	FUR-TA-10	Furniture	Tables	Bretford C	957.5775	5	0.45	-383.031
6	5	US-2015-1	10/11/2015	10/18/2015	Standard C	SO-20335	Sean O'Do	Consumer	United Sta	Fort Laude	Florida	33311	South	OFF-ST-10	Office Sup	Storage	Eldon Fold	22.368	2	0.2	2.5164
7	6	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	FUR-FU-10	Furniture	Furnishings	Eldon Expr	48.86	7	0	14.1694
8	7	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	OFF-AR-10	Office Sup	Art	Newell 32	7.28	4	0	1.9656
9	8	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	TEC-PH-10	Technolog	Phones	Mitel 5320	907.152	6	0.2	90.7152
10	9	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	OFF-BI-10	Office Sup	Binders	DXL Angle	18.504	3	0.2	5.7825
11	10	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	OFF-AP-10	Office Sup	Appliances	Belkin F5C	114.9	5	0	34.47
12	11	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	FUR-TA-10	Furniture	Tables	Chromcraft	1706.184	9	0.2	85.3092
13	12	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angeles	California	90032	West	TEC-PH-10	Technolog	Phones	Konftel 25	911.424	4	0.2	68.3568
14	13	CA-2017-1	4/15/2017	4/20/2017	Standard C	AA-10480	Andrew All	Consumer	United Sta	Concord	North Caro	28027	South	OFF-PA-10	Office Sup	Paper	Xerox 196	15.552	3	0.2	5.4432
15	14	CA-2016-1	12/5/2016	12/10/2016	Standard C	IM-15070	Irene Mad	Consumer	United Sta	Seattle	Washington	98103	West	OFF-BI-10	Office Sup	Binders	Fellowes P	407.976	3	0.2	132.5922
	15	US-2015-1	11/22/2015	11/26/2015	Standard C	HP-14815	Harold Pav	Home Offi	United Sta	Fort Worth	Texas	76106	Central	OFF-AP-10	Office Sup	Appliances	Holmes Re	68.81	5	0.8	-123.858
		US-2015-1	11/22/2015	11/26/2015	Standard C	HP-14815	Harold Pav	Home Offi	United Sta	Fort Worth	Texas	76106	Central	OFF-BI-10	Office Sup	Binders	Storex Dur	2.544	3	0.8	-3.816
		CA-2014-1	11/11/2014	11/18/2014	Standard C	PK-19075	Pete Kriz	Consumer	United Sta	Madison	Wisconsin	53711	Central	OFF-ST-10	Office Sup	Storage	Stur-D-Sto	665.88	6	0	13.3176
		CA-2014-1	5/13/2014	5/15/2014	Second Cl	AG-10270	Alejandro	Consumer	United Sta	West Jord	Utah	84084	West	OFF-ST-10	Office Sup	Storage	Fellowes S	55.5	2	0	9.99
		CA-2014-1	8/27/2014	9/1/2014	Second Cl	ZD-21925	Zuschuss E	Consumer	United Sta	San Franci	California	94109	West	OFF-AR-10	Office Sup	Art	Newell 34	8.56	2	0	2.4824



Data types

- Numeric: 500, 25.5, 1002
- String/Text: “Hello”, “Data Science”
- Boolean: TRUE, FALSE
- Date: 2022-05-03
- Geo (Location): USA, Japan, India





Data Sources



Data Sources

- **Internal:**
 - sales, marketing, finance, human resources, procurement
- **External:**
 - social media, survey, 2nd+3rd party data (partner | purchase)







Life at LINE MAN Wongnai
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Intro


ชีลาแมนทำงานที่ LINE MAN Wongnai จะไปไหนมาไหนได้
<https://life.lmwn.com/>

Page · Information technology company
 T-One Building, 8 Sukhumvit, 40 Alley, Khet Khlong Toei, Pkha Khumong, Bangkok, Thailand, Bangkok
 people-recruit-public@lmwn.com
 careers.lmwn.com



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Featured



Life at LINE MAN Wongnai
15 March '23

We have done it! We are the winners of the Best Employer Brand on LinkedIn Talent Awards 2022...

Posts [Filters](#)

Life at LINE MAN Wongnai
18 August at 10:00 · 48

ใครว่าแค่กินแล้วมีสุขภาพดีนะ? พี่ชายที่ คุมฟ VP of People ของเรา ได้เป็นแชมป์เรื่องใจว่าดีแล้วนะ! ไปดูกัน พี่ชายที่คุมฟของเราได้เป็นแชมป์มาแล้ว! มาดูกันว่าพี่ชายที่คุมฟของเราจะชนะอย่างไรกันบ้าง! พี่ชายที่คุมฟของเราได้เป็นแชมป์มาแล้ว! มาดูกันว่าพี่ชายที่คุมฟของเราจะชนะอย่างไรกันบ้าง!

ชีลาแมนจัดงานที่ Facebook LIVE เพจ SETYoungGen ในวันเสาร์ที่ 26 สิงหาคม เวลา 10:00 - 11:30 น. มาดู Event 1 นี้ได้!
<https://t.me/tv1713paw>
 ... See more



เคล็ดลับ (ไม่) ลับ เตรียมตัวอย่างไร ได้ใจองค์กรยุคใหม่

คุณเคยสงสัยไหมว่าทำไม LINE MAN Wongnai ถึงได้เป็นแชมป์เรื่องใจว่าดีแล้ว? พี่ชายที่คุมฟของเราได้เป็นแชมป์มาแล้ว! มาดูกันว่าพี่ชายที่คุมฟของเราจะชนะอย่างไรกันบ้าง! พี่ชายที่คุมฟของเราได้เป็นแชมป์มาแล้ว! มาดูกันว่าพี่ชายที่คุมฟของเราจะชนะอย่างไรกันบ้าง!

พิเศษสุด!
 พี่ชายที่คุมฟของเราจะมาแบ่งปันประสบการณ์ที่ได้ทำมาตลอด 10 ปีที่ผ่านมา! มาดูกันว่าพี่ชายที่คุมฟของเราจะชนะอย่างไรกันบ้าง! พี่ชายที่คุมฟของเราได้เป็นแชมป์มาแล้ว! มาดูกันว่าพี่ชายที่คุมฟของเราจะชนะอย่างไรกันบ้าง!

อานนดาภรณ์ เกตุพิทักษ์ (คุณน)
 รองประธานฝ่ายทรัพยากรบุคคล
 LINE MAN Wongnai, Bangkok, Thailand
 10 years at LINE MAN Wongnai

เจ้าหน้าที่รายการ
อรรถพร กลิ่นกลั่น (อ)
 ผู้จัดการ
 Creative Task Conference (CTC)

รับสิทธิ์ 26 สิงหาคม 2566
 09:00 - 11:30 น.

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Account
Date & Time

Message

Engagement



ขอบคุณ Tech in Asia ที่แบ่งปันเรื่องราวความสำเร็จอีกขั้นของเรา 🙏
LINE MAN Wongnai ตัดใจและตัดสินใจที่จะได้ร่วมงานกับ FoodStory เพื่อพัฒนา Merchant Solutions ไปสู่
อีกระดับด้วยกัน
อ่านข่าวฉบับเต็มได้ที่ <https://bit.ly/3Q9aspA> ... See more



TECHINASIA.COM

Thai food delivery unicorn acquires local POS startup

Buying FoodStory is expected to bolster Line Man Wongnai's restaurant management operatio...



Content Type

Feedback



	A	B	C	D	E	F	G	H	I
1	Name (Profile)	Created date	Post type	Message	Posts	Likes	Reactions	Post shares	Comments
2	Life at LINE MAN Wongnai	2023-01-03	added_photos	HOT JOBS OF JANUARY 🍊	1	75	75	70	1
3	Life at LINE MAN Wongnai	2023-01-03	added_photos	LINE MAN Wongnai x ภาควิชาวิศวกรรมคอมพิวเตอร์ มหาวิทยาลัย	1	42	47	11	0
4	Life at LINE MAN Wongnai	2023-01-03	mobile_status_update	Happy New Year 2023 🎉	1	176	194	3	1
5	Life at LINE MAN Wongnai	2023-01-04	added_photos	LINE MAN Wongnai มีกระบวนการคัดกรอง "คนที่ไม่ใช่" อย่างไรใน	1	26	27	18	0
6	Life at LINE MAN Wongnai	2023-01-05	added_photos	"ที่ LINE MAN Wongnai เปิดกว้างกับเด็กฝึกงานมากครับ เดิมทีผ	1	29	30	6	0
7	Life at LINE MAN Wongnai	2023-01-09	added_photos	LINE MAN Wongnai x ชุมชนนิสิตวิศวกรรมคอมพิวเตอร์ มหาวิทยาลัย	1	42	46	19	0
8	Life at LINE MAN Wongnai	2023-01-10	added_photos	ตลอดปี 2565 ที่ผ่านมา ชาว Engineering และ People Team ชะ	1	43	45	10	0
9	Life at LINE MAN Wongnai	2023-01-10	added_photos	ฝึกงานซัมเมอร์ปีนี้มีตำแหน่งไหนเปิดรับบ้างนะ? 😊	1	75	83	86	4
10	Life at LINE MAN Wongnai	2023-01-11	added_photos	Platform Team เป็นทีมผู้พัฒนาเครื่องมือเพื่ออำนวยความสะดวก	1	73	74	37	0
11	Life at LINE MAN Wongnai	2023-01-11	added_photos	น้องๆ นิสิต.เกษตรที่สนใจอยากฝึกงานกับเรา หรืออยากรู้ว่ารมย	1	128	132	18	0
12	Life at LINE MAN Wongnai	2023-01-12	added_photos	"เริ่มแรกสนใจฝึกงานทีม Product เพราะอยากเป็นส่วนหนึ่งของกา	1	63	68	18	0
13	Life at LINE MAN Wongnai	2023-01-13	added_photos	10 คำถามที่พบบ่อยใน LINE MAN Wongnai Junior 2023 โครง	1	42	42	33	2
14	Life at LINE MAN Wongnai	2023-01-13	added_photos	🕒 6 วันสุดท้าย! กับการสมัครฝึกงานภาคฤดูร้อน ในโครงการ LIN	1	22	23	20	0
15	Life at LINE MAN Wongnai	2023-01-16	added_video	การฝึกงานกับทีม People Engagement ต้องใช้ความคิดสร้างสรรค์	1	58	58	8	1
16	Life at LINE MAN Wongnai	2023-01-17	added_photos	🕒 24 ชั่วโมงสุดท้าย! กับการสมัครฝึกงานภาคฤดูร้อน ในโครงการ	1	38	38	28	0
17	Life at LINE MAN Wongnai	2023-01-19	added_photos	หน้าที่ของ Site Reliability Engineer (SRE) คือ การทำให้ระบบเ	1	62	63	92	0
18	Life at LINE MAN Wongnai	2023-01-20	mobile_status_update	อีกมุมของ 'ยอด ชินสุภัคกุล' CEO LINE MAN Wongnai	1	20	20	5	0
19	Life at LINE MAN Wongnai	2023-01-25	added_photos	วันนี้พี่เวิร์ธ Software Engineer in Test ค่ะพี่เก๋ ICT และพี่ๆ Te	1	46	48	1	0
20	Life at LINE MAN Wongnai	2023-01-25	added_photos	เมื่อปี 2022 ที่ผ่านมา LINE MAN Wongnai ได้เปิดรับทีม Engine	1	90	94	32	1
21	Life at LINE MAN Wongnai	2023-01-26	mobile_status_update	พวกเราได้มาเจอกันที่ออฟฟิศบอยซ์แล้ว มาดูสไลด์การแต่งตัวช	1	75	84	19	4
22	Life at LINE MAN Wongnai	2023-01-27	added_photos	ตำแหน่งงาน Product Manager เป็นอีกหนึ่งตำแหน่งงานยอดนิย	1	85	85	48	0
23	Life at LINE MAN Wongnai	2023-01-30	added_video	LINE MAN Wongnai New Year Party 2023 🎉	1	92	102	26	2
24	Life at LINE MAN Wongnai	2023-02-01	added_photos	LINE MAN Wongnai Product Management Program (PMP)	1	73	76	146	2





Review DA Concepts



Data analytics

- Dimension : category
- Measures : number



Example

Dimensions

Measures

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer	Customer	Segment	Country	City	State	Postal Cod	Region	Product ID	Category	Sub-Categ	Product N	Sales	Quantity	Discount	Profit
2	1	CA-2016-1	11/8/2016	11/11/2016	Second Cl	CG-12520	Claire Gut	Consumer	United Sta	Henderson	Kentucky	42420	South	FUR-BO-10	Furniture	Bookcases	Bush Some	261.96	2	0	41.9136
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11	10	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angele	California	90032	West	OFF-AP-10	Office Sup	Appliances	Belkin F5C	114.9	5	0	34.47
12	11	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angele	California	90032	West	FUR-TA-10	Furniture	Tables	Chromcraft	1706.184	9	0.2	85.3092
13	12	CA-2014-1	6/9/2014	6/14/2014	Standard C	BH-11710	Brosina Hc	Consumer	United Sta	Los Angele	California	90032	West	TEC-PH-10	Technolog	Phones	Konftel 25	911.424	4	0.2	68.3568
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16	15	US-2015-1	11/22/2015	11/26/2015	Standard C	HP-14815	Harold Pav	Home Offi	United Sta	Fort Worth	Texas	76106	Central	OFF-AP-10	Office Sup	Appliances	Holmes Re	68.81	5	0.8	-123.858
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18	17	CA-2014-1	11/11/2014	11/18/2014	Standard C	PK-19075	Pete Kriz	Consumer	United Sta	Madison	Wisconsin	53711	Central	OFF-ST-10	Office Sup	Storage	Stur-D-Sto	665.88	6	0	13.3176



Find total sales

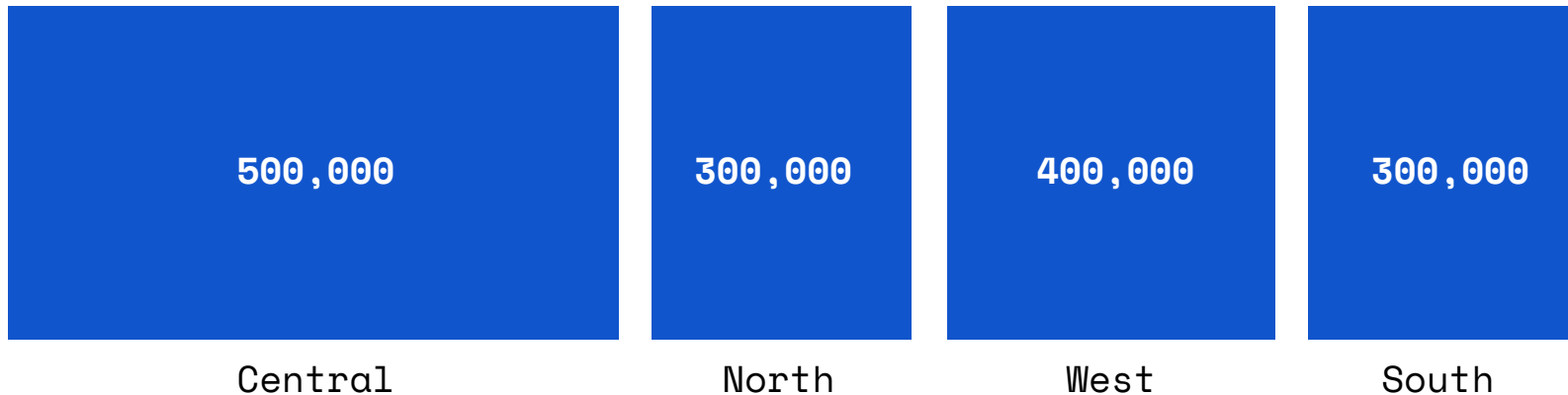
one measure

1,500,000



Find total sales by region

one measure x one dimension

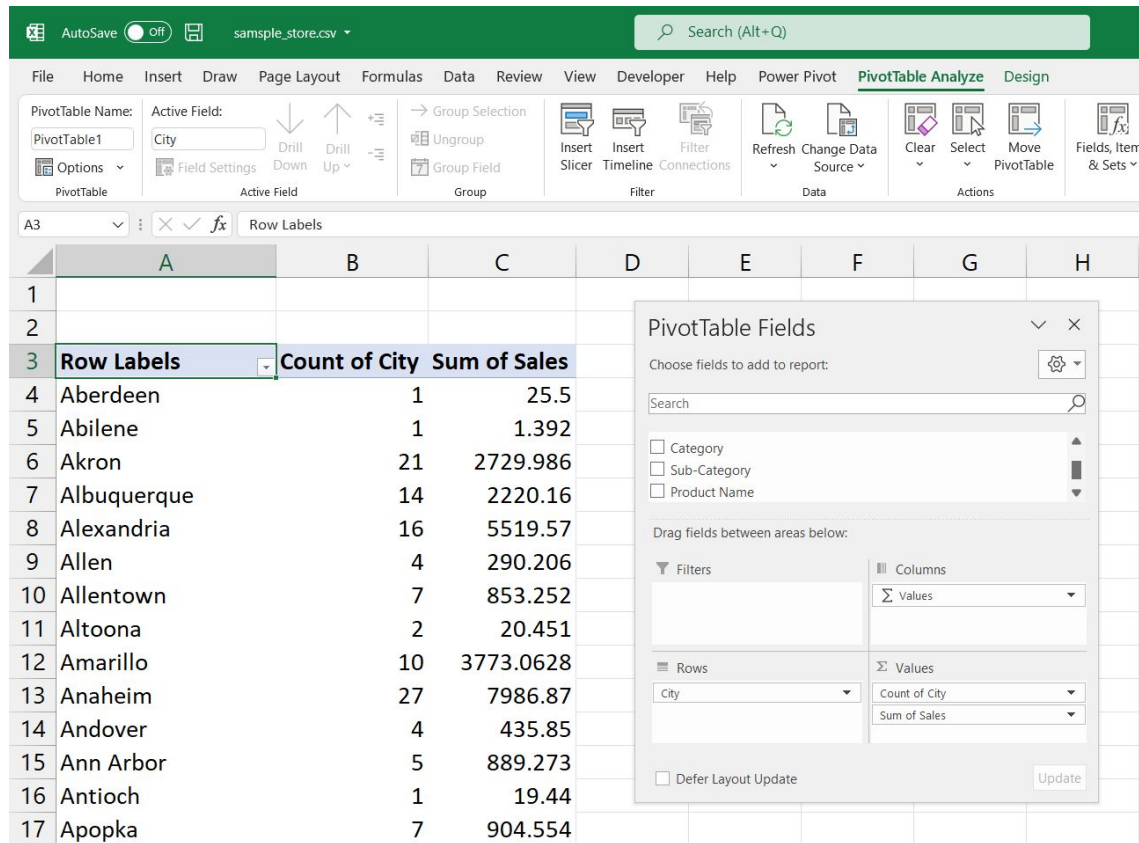


Reports

Basic formula

Rows: dimension

Values: measure



The screenshot displays the Microsoft Excel interface with a PivotTable and the PivotTable Fields task pane. The PivotTable is located in the range A3:H17 and has the following data:

Row Labels	Count of City	Sum of Sales
Aberdeen	1	25.5
Abilene	1	1.392
Akron	21	2729.986
Albuquerque	14	2220.16
Alexandria	16	5519.57
Allen	4	290.206
Allentown	7	853.252
Altoona	2	20.451
Amarillo	10	3773.0628
Anaheim	27	7986.87
Andover	4	435.85
Ann Arbor	5	889.273
Antioch	1	19.44
Apopka	7	904.554

The PivotTable Fields task pane is open, showing the following configuration:

- Choose fields to add to report:** Category, Sub-Category, Product Name (all unchecked).
- Drag fields between areas below:**
 - Filters:** (empty)
 - Columns:** Values (dropdown)
 - Rows:** City (dropdown)
 - Values:** Count of City (dropdown), Sum of Sales (dropdown)
- Defer Layout Update:** (unchecked)
- Update:** (button)

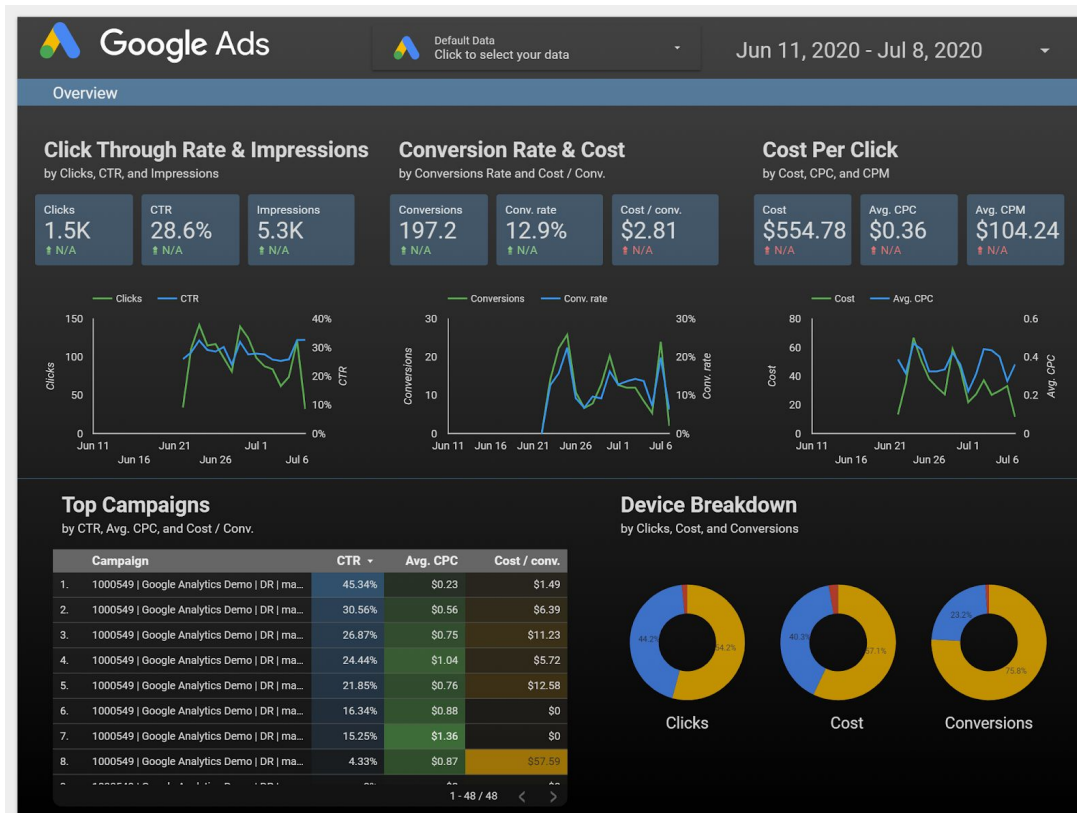


Dashboard

Visual Report +
Interactivity



Create a
dashboard





What is Dashboard



Dashboard

A dashboard is a visual display of all of your data. Its primary intention is to provide information at-a-glance, such as KPIs

Source: [Adjust](#)



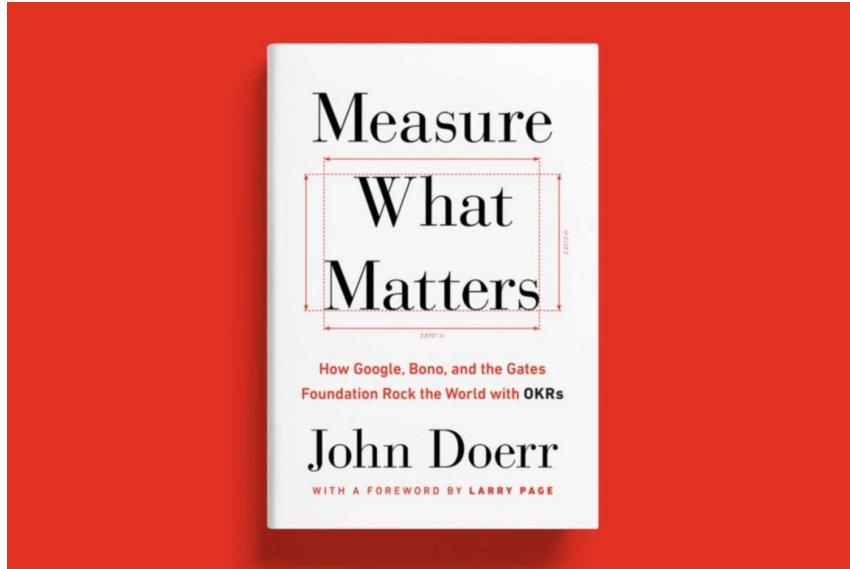
KPI

Key Performance Indicators, a quantifiable measure of performance over time for a specific objective

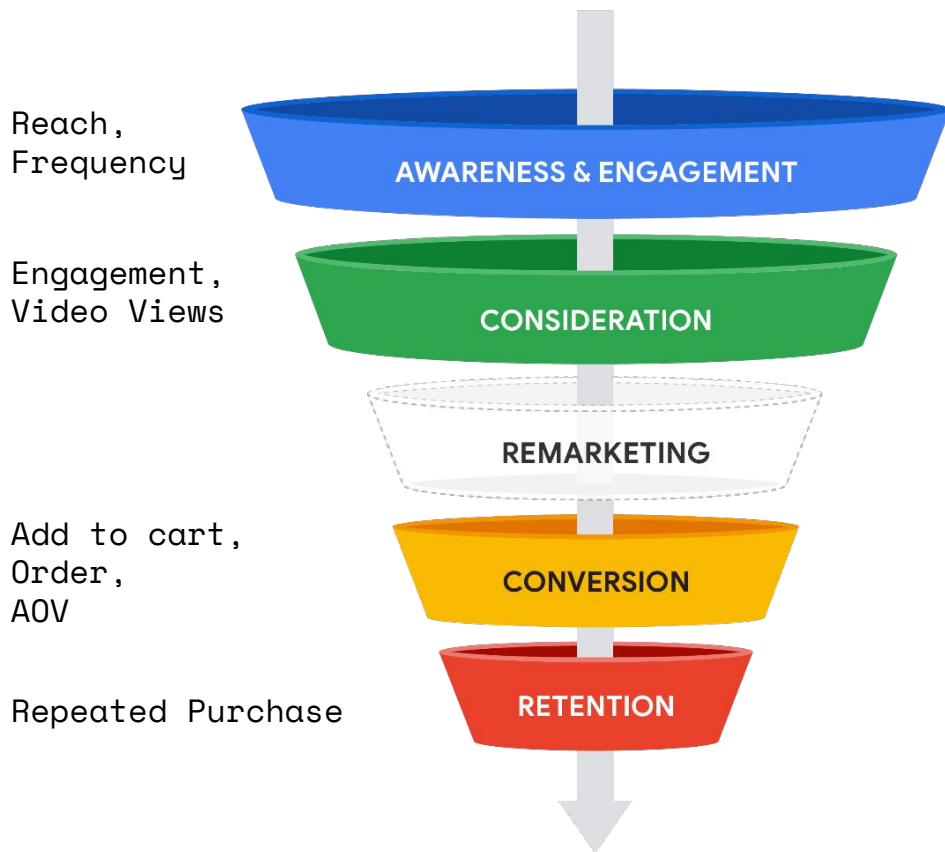
Source: [Olik](#)



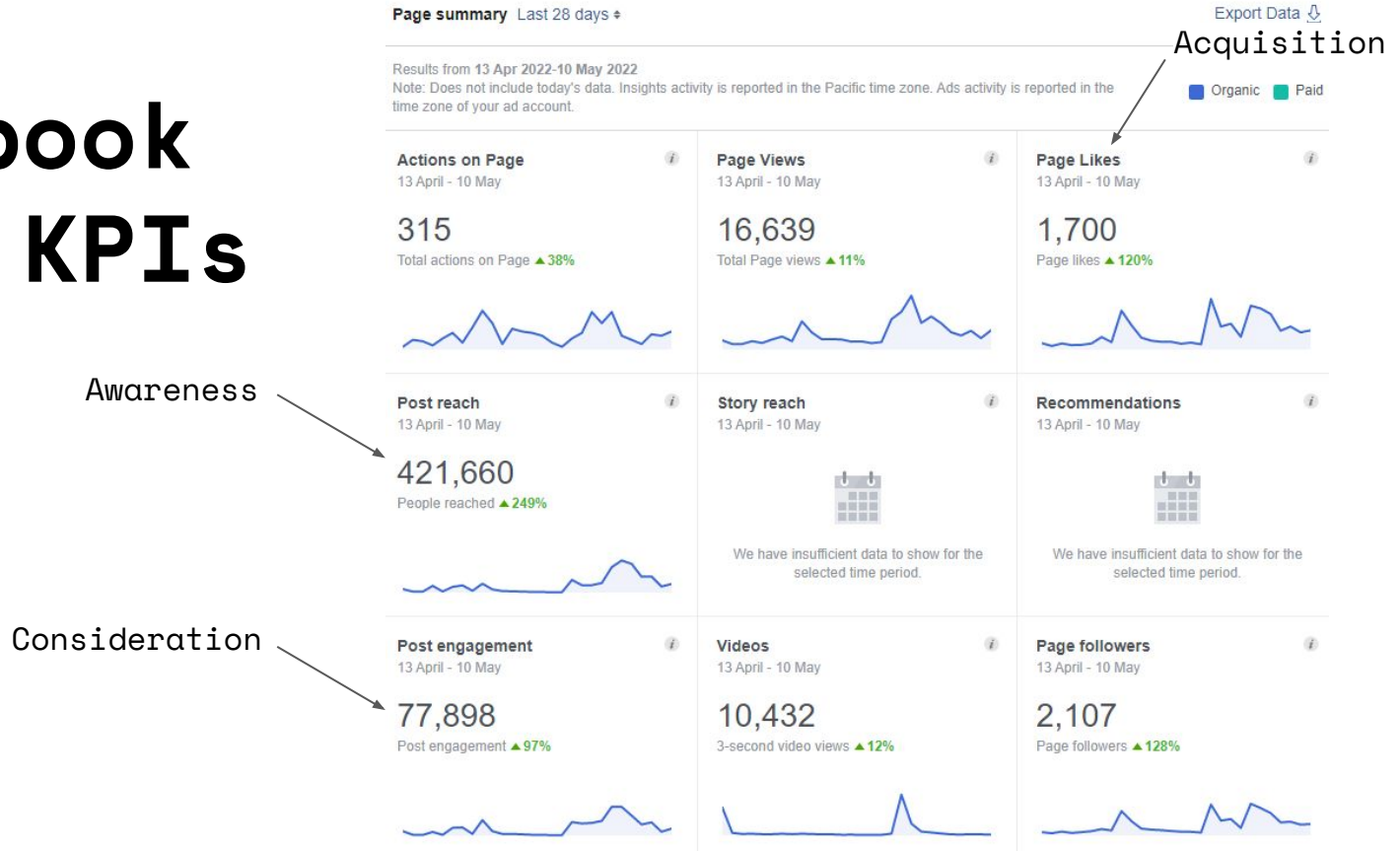
Measure What Matters



Digital Marketing KPI

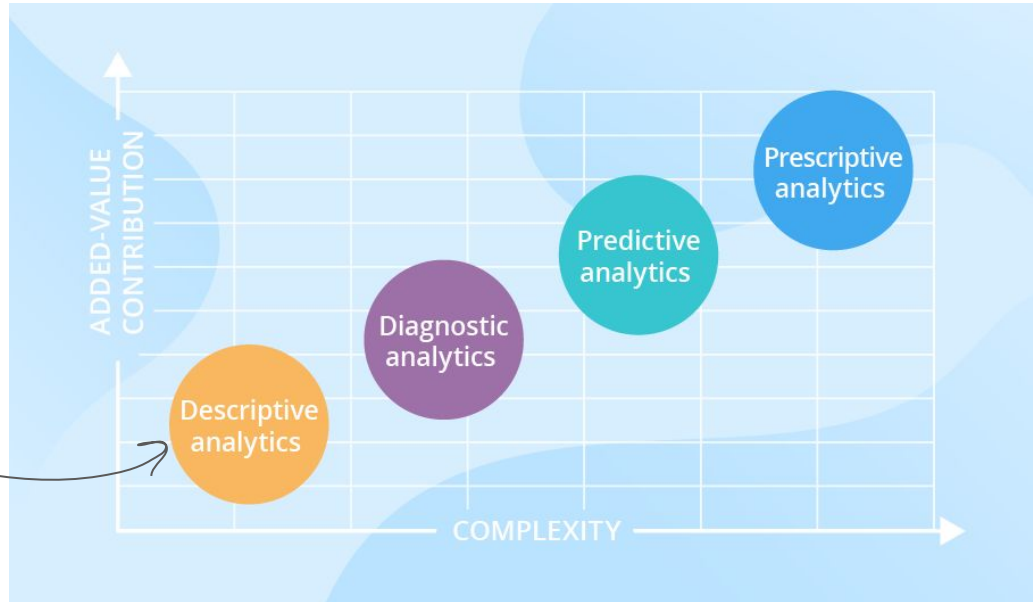


Facebook Page KPIs



Descriptive Analytics

Dashboard is heavily used at the first stage





What Google Data Studio



Google Looker Studio



- Free
- Easy to use
- Frequent update
- Google brand :D

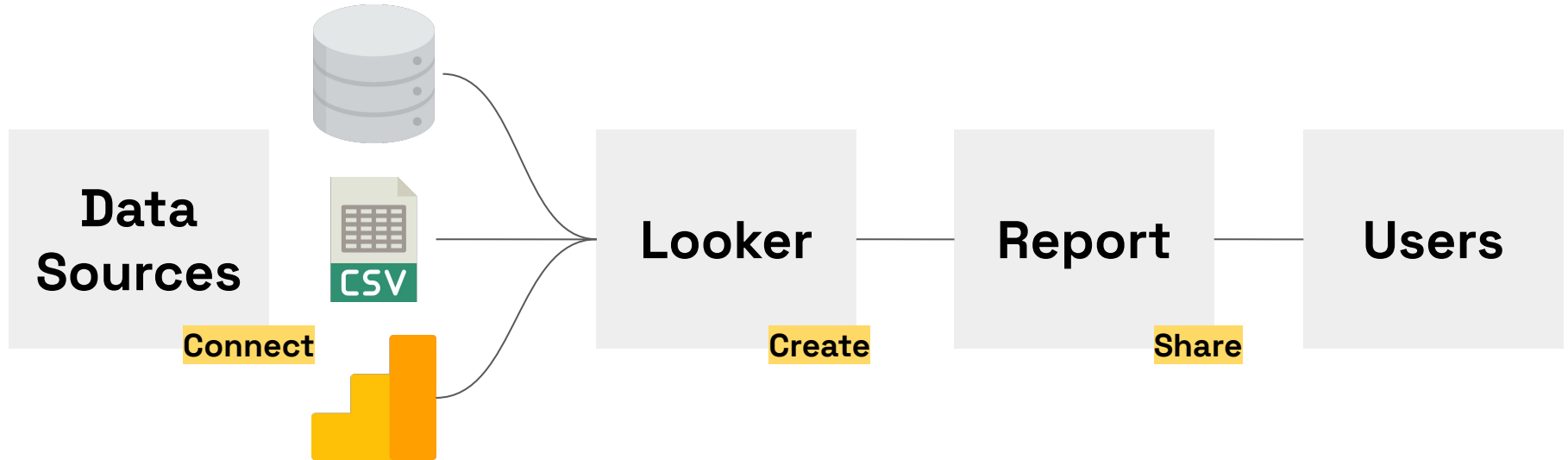


Three Simple Steps

- **Connect** data sources
- **Create** visualizations
- **Share** your report/ dashboard



The Flow



Data Sources

Google Connectors (22)

Connectors built and supported by Data Studio [Learn more](#)



Google Analytics

By Google

Connect to Google Analytics.



Google Ads

By Google

Connect to Google Ads performance report data.



Google Sheets

By Google

Connect to Google Sheets.



BigQuery

By Google

Connect to BigQuery tables and custom queries.



File Upload

By Google

Connect to CSV (comma-separated values) files.



Amazon Redshift

By Google

Connect to Amazon Redshift.



Campaign Manager 360

By Google

Connect to Campaign Manager 360 data.



Cloud Spanner

By Google

Connect to Google Cloud Spanner databases.



Cloud SQL for MySQL

By Google

Connect to Google Cloud SQL for MySQL databases.



Display & Video 360

By Google

Connect to Display & Video 360 report data.



Extract Data

By Google

Connect to Extract Data



Google Ad Manager 360

By Google

Connect to Google Ad Manager data.



Interface

Untitled Report

File Edit View Insert Page Arrange Resource Help

Reset Share View

Table

Scorecard

Time series

Bar

Pie

Google Maps

Geo chart

Line

Area

Scatter

Pivot table

Bullet

	Order ID	Record Count
1.	CA-2017-100111	14
2.	CA-2017-157987	12
3.	CA-2016-165330	11
4.	US-2016-108504	11
5.	US-2015-126977	10
6.	CA-2016-105732	10
7.	CA-2015-131338	10
8.	CA-2015-104346	9
9.	PA-2016-100001	9

Chart > Table

DATA STYLE

Data source

Sample Sup...

BLEND DATA

Size Range Dimension

Order Date

Dimension

Order ID

Add dimension

Drill down

Metric

Record Count

Add metric

Optional metrics

Metric sliders

Rows per Page

100

Summary row

Show summary row

Sort

Record Count

Descending

Available Fields

Type to search

Category

City

Country

Customer ID

Customer Name

Discount

Order Date

Order ID

Order Code

Product ID

Product Name

Profit

Quantity

Region

Row ID

Sales

Segment

Ship Date

Ship Mode

State

Sub-Category

Record Count

ADD A FIELD

ADD A PARAMETER



Variables

Drag and Drop

Chart > Table

DATA STYLE

Data source

Sample Sup...

+ BLEND DATA ?

Date Range Dimension

Order Date

Dimension

Order ID

+ Add dimension

Drill down

Metric

AUT Record Count

+ Add metric

Optional metrics

Metric sliders

Rows per Page

100

Available Fields

Type to search

- ABC Category
- City
- Country
- ABC Customer ID
- ABC Customer Name
- 123 Discount
- Order Date
- ABC Order ID
- 123 Postal Code
- ABC Product ID
- ABC Product Name
- 123 Profit
- 123 Quantity
- ABC Region
- 123 Row ID
- 123 Sales
- ABC Segment
- Ship Date
- ABC Ship Mode
- ABC State
- ABC Sub-Category
- 123 Record Count

Columns in dataset



Date & Time

https://support.google.com/looker-studio/answer/6401549?hl=en&ref_topic=10388842#zippy=%2Cin-this-article

Type	Example data
Date	Sep 15, 2020
Date & Time	Sep 15, 2020, 6:10:59:59 PM
Year	2020
Year Quarter	Q3 2020
Year Month	Sep 2020
ISO Year Week	Sep 14, 2020 to Sep 20, 2020 (Week 38)
Date Hour	Sep 15, 2020, 6 PM
Date Hour Minute	Sep 15, 2020, 6:10 PM
Quarter	Q3
Month	September
ISO Week	Week 35
Month Day	Sep 15
Day of Week	Tuesday
Day of Month	23
Hour	6 PM
Minute	52





Types of Visuals in Looker



Basic Visuals

❏ Table

❏ Scorecard

❏ Time series

❏ Bar

❏ Pie

❏ Map

❏ Line

❏ Scatter

Table



Scorecard



Time series



Bar



Pie



Google Maps



Geo chart



Line



Area



Scatter





Data Freshness





Data freshness



Google Sheets: King Power Data with Google Sheets - FB_Firster

How fresh do you need this data to be?

More frequent updates can give you fresher data, but may also slow performance and increase query costs for paid data services. [Learn more](#)

Check for fresh data:

Every 15 minutes

Default



Every hour



Every 4 hours



Every 12 hours



CANCEL

SET DATA FRESHNESS



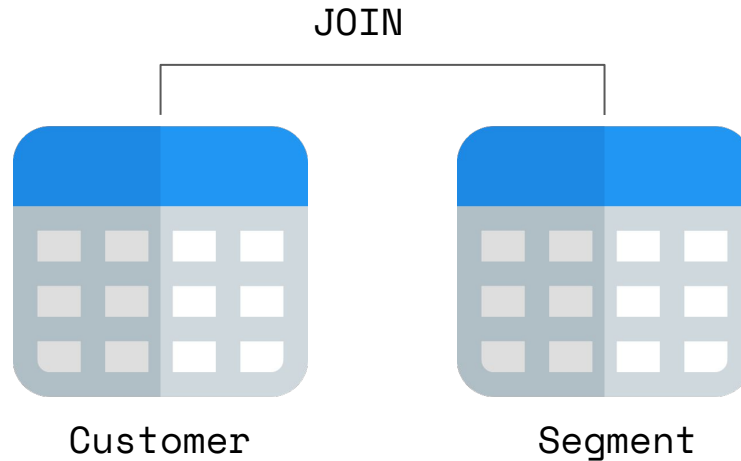


Blended Data



Blend = Join Data

Getting data from multiple tables



SQL JOIN = VLOOKUP()

Customer

ID	Name	City
1001	Toy	BKK
1002	Anna	LON
1003	Marry	LON

Segment

ID	SegName	Cust_ID
1	Deal Hunter	1001
2	Price Sensitive	1002
3	Premium	1003

Join PK=FK



Result Set

Cool!

ID	Name	City	SegName
1001	Toy	BKK	Deal Hunter
1002	Anna	LON	Price Sensitive
1003	Marry	LON	Premium



JOIN Example

```
SELECT * FROM table1  
JOIN table2  
ON table1.pk = table2.fk;
```



Primary Key



Foreign Key



JOIN syntax

```
SELECT * FROM customer  
JOIN segment  
ON customer.id = segment.cust_id;
```



How blends work

Database programmers use SQL join statements to blend data from different tables. In Looker Studio, you can blend data without writing code. Instead, you use the blend editor to configure the join, as shown in the following screenshot:

The screenshot displays the 'Blend Data' configuration window in Looker Studio. It shows three tables being blended: 'Table 1: Grades', 'Table 2: Students', and 'Table 3: Classes'. Each table has a '1 condition' join type selected. The 'Join another table' button is located between the tables. The right panel shows the 'Blended Data (1)' summary, listing included dimensions and metrics. The 'Save' button is at the bottom right.

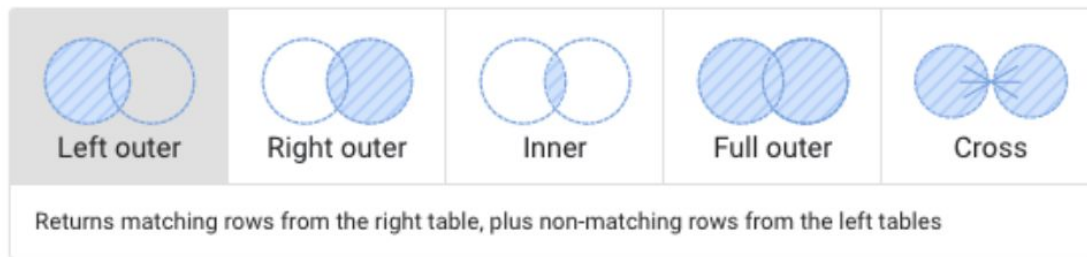
<https://support.google.com/looker-studio/answer/9061420?hl=en>



Join configuration

1 Join operator

Tell us how rows from all the tables on the left and the table to the right are combined.



2 Join conditions

Tell us how these tables are related. Add one or more fields from the tables to the left that match the fields in the table to the right.

ABC student_id (Grades)	⌄	ABC student_id (Students)
+ Add field	⌄	+ Add field



Quick Example

Classes

class_id	class_name
c1	Underwater basket weaving
c2	Home fusion made easy
c3	How to train an attack iguana
c4	Learn SQL for fun and profit

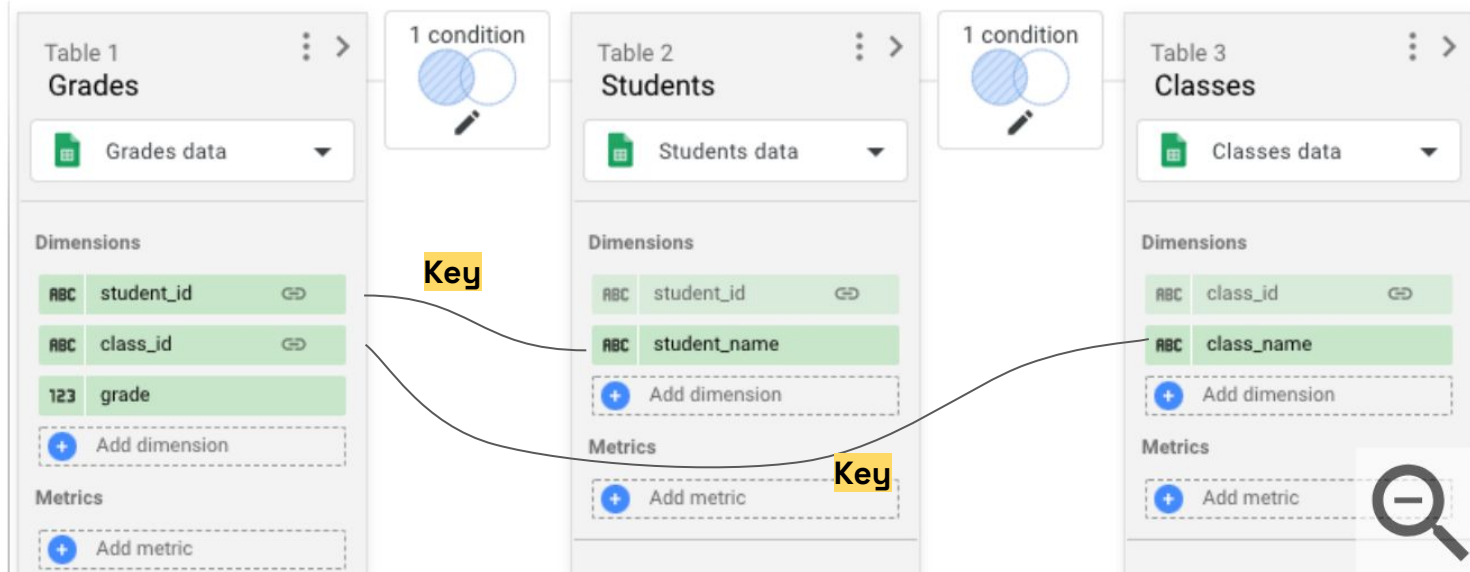
Students

student_id	student_name
s1	Brett
s2	Rick
s3	Susanna
s4	Jennifer

Grades

student_id	class_id	grade
s1	c1	2
s2	c1	99
s3	c1	65
s4	c1	3
s2	c2	38
s3	c2	88
s4	c2	48
s1	c3	7
s4	c3	32
s1	c4	94
s2	c4	63
s3	c4	75
s4	c4	20





<https://support.google.com/looker-studio/answer/11828486?sjid=15785277979262074662-AP#zippy=%2Cto-answer-this-question>





Types of Blend

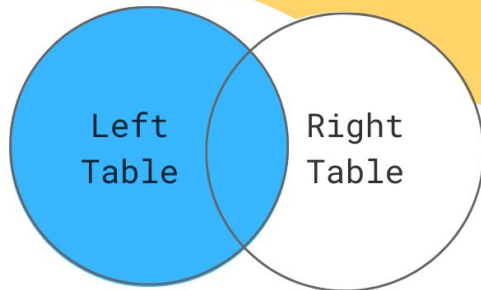


Four Join Types

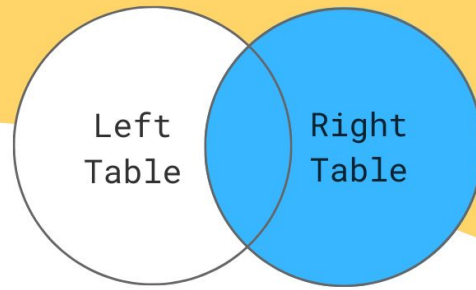
- ❏ INNER JOIN
- ❏ LEFT JOIN
- ❏ RIGHT JOIN
- ❏ FULL JOIN



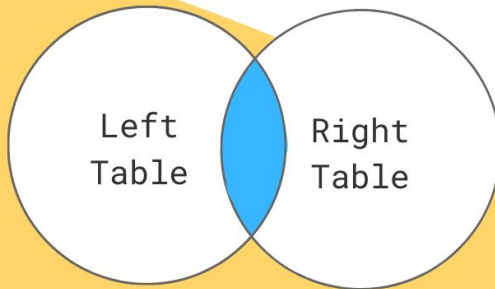
LEFT JOIN



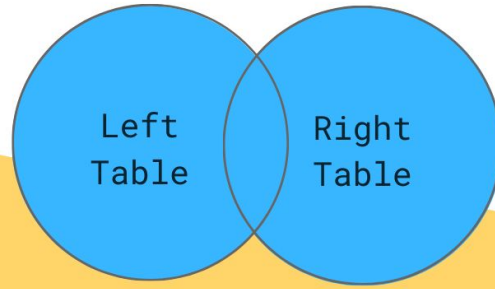
RIGHT JOIN



INNER JOIN



FULL JOIN



INNER JOIN (most common)

Customer

ID	Name	City
1001	Toy	BKK
1002	Anna	LON
1003	Marry	LON
1004	Ken	JPN

Segment

ID	SegName	Cust_ID
1	Deal Hunter	1001
2	Price Sensitive	1002
3	Premium	1003

Join PK=FK



Result Set

Only Matched Rows Return

ID	Name	City	ID	SegName	Cust_ID
1001	Toy	BKK	1	Deal Hunter	1001
1002	Anna	LON	2	Price Sensitive	1002
1003	Marry	LON	3	Premium	1003



LEFT JOIN

Customer

ID	Name	City
1001	Toy	BKK
1002	Anna	LON
1003	Marry	LON
1004	Ken	JPN

Segment

ID	SegName	Cust_ID
1	Deal Hunter	1001
2	Price Sensitive	1002
3	Premium	1003

Join PK=FK



Result Set

All rows in left table will be in the result set

ID	Name	City	ID	SegName	Cust_ID
1001	Toy	BKK	1	Deal Hunter	1001
1002	Anna	LON	2	Price Sensitive	1002
1003	Marry	LON	3	Premium	1003
1004	Ken	JPN	NULL	NULL	NULL



FULL JOIN

Customer

ID	Name	City
1001	Toy	BKK
1002	Anna	LON
1003	Marry	LON
1004	Ken	JPN

Segment

ID	SegName	Cust_ID
1	Deal Hunter	1001
2	Price Sensitive	1002
3	Premium	1003
New 99	None	NULL

Join PK=FK



Result Set

All rows in left table will be in the result set

ID	Name	City	ID	SegName	Cust_ID
1001	Toy	BKK	1	Deal Hunter	1001
1002	Anna	LON	2	Price Sensitive	1002
1003	Marry	LON	3	Premium	1003
1004	Ken	JPN	NULL	NULL	NULL
NULL	NULL	NULL	99	None	NULL





Sharing



Sharing Report

Invite people

Schedule email delivery

Get report link

Embed report

Download report

Share

View



Embed Report

Embed Report

- ☒ Enable embedding
- ☒ Show report navigation in embedded mode. [Learn more](#)
- ☒ Embed Code ☐ Embed URL

Paste the following into your site:

```
<iframe width="600" height="450"
src="|
fa1ab5c58f94/page/f6MaD" frameborder="0" style="border:0" allowfullscreen></iframe>
```

Width (px)

600

Height (px)

450

DONE

COPY TO CLIPBOARD

Embed

Website



Filter by Email

← EDIT CONNECTION | FILTER BY EMAIL

+ ADD A FIELD

+ ADD A PARAMETER

Field ↓	Type ↓	Default Aggregation ↓	Description ↓	Search fields
DIMENSIONS (10)				
Comments	123 Number	Sum		
Created date	Date	None		
Likes	123 Number	Sum		
Message	ABC Text	None		
Name (Profile)	ABC Text	None		
Post shares	123 Number	Sum		
Post type	ABC Text	None		
Posts	123 Number	Sum		
Reactions	123 Number	Sum		
share_level	ABC Text	None		
METRICS (1)				
Record Count	123 Number	Auto		



Filter by Email

← ALL FIELDS

Filter by email

If your data contains email addresses, you can filter this data source to show only data matching the currently signed in user's email address. Report viewers must consent to letting this data source access their email address. [Learn more](#)

☐ Filter data by viewer email





Course Recap



What we learned

- Looker is very easy to use software
- Clean data makes everything easy
- You can do something in Looker, doesn't mean you should :)
- Dashboard != Report
- Connect > Create > Share



Key Takeaways

- SQL to get data
- Spreadsheets to analyze
- Dashboard to present



Data Analyst



Homework

<https://analytics.google.com/analytics/academy/course/10>

Meet the Instructors



JUSTIN CUTRONI

Justin's mission is to teach everyone how to use digital analytics for their business. With over ten years of industry experience, Justin now leads the Google Analytics Education team. Justin is an active participant in the digital analytics community. He publishes the blog Analytics Talk and has authored or co-authored three books on Google Analytics. In 2014, he was named the Digital Analytics Industry's Most Influential Contributor by the Digital Analytics Association.



KRISTA SEIDEN

Krista is a leader in digital analytics, advocating for best practices, and a frequent speaker at industry events. Krista co-chairs the San Francisco chapter of the Digital Analytics Association (DAA) and mentors for the Analysis Exchange. She won the 2014 DAA Rising Star Award and the 2015 DAA Practitioner of the Year Award.

Unit 1: Welcome to Data Studio

[Lesson 1: Data Studio overview](#)

[Lesson 2: How Data Studio works](#)

[Lesson 3: Access controls](#)

Unit 2: Navigate Data Studio

[Lesson 1: Data Studio Home page](#)

[Lesson 2: Data source overview](#)

[Lesson 3: Report overview](#)

[Lesson 4: Report edit mode overview](#)

Unit 3: Build your first report

[Lesson 1: Connect Data](#)

[Lesson 2: Create a new report and add charts](#)

[Lesson 3: Add and configure report controls](#)

[Lesson 4: Share reports with others](#)

Unit 4: Format and Design Reports

[Lesson 1: Data visualization basics](#)

[Lesson 2: Create and use report templates](#)





Hello World Bootcamp

Intro to Looker Studio <>

