

Agenda



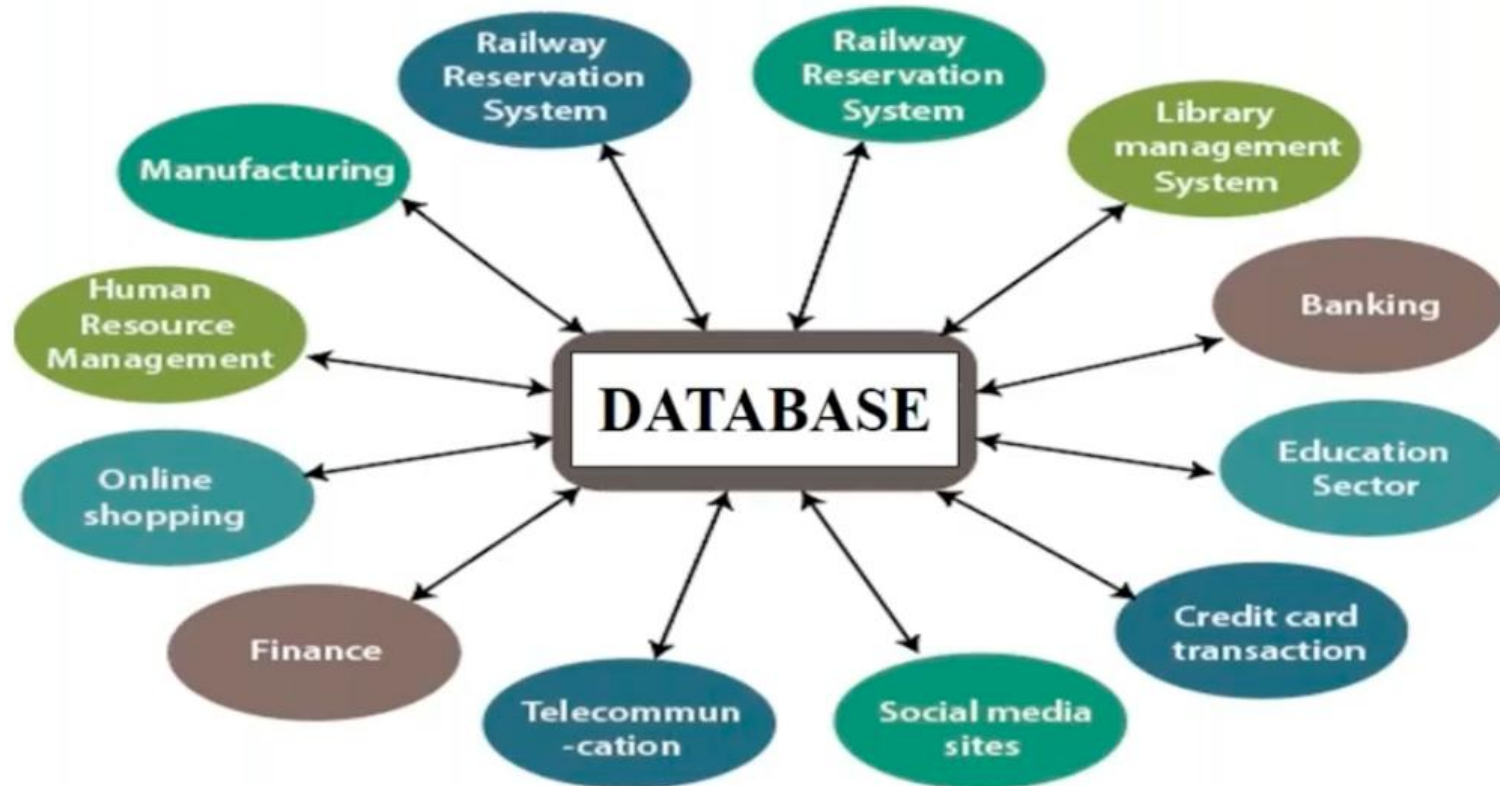
- SQL
- Why is SQL Important?
- Power of Visualization
- Power BI
- Azure
- Course Outline



KSR Consulting Services



Some of Real Time Applications we use



KSR Consulting Services



Why do you need a Database?

- Databases can store very large numbers of records efficiently
- Web interfaces to data
- It is very quick and easy to find **information**
- Easy to add new **data** and to edit data
- Data changes on a regular basis
- Multiple simultaneous changes to data
- Share huge data set among many people



SQL



- Stands for Structured Query Language
- SQL is used to communicate with a database
- SQL statements are used to perform tasks such as update data on a database, or retrieve data from a database
- Some common relational database management systems that use SQL are: Oracle, Sybase, Microsoft SQL Server



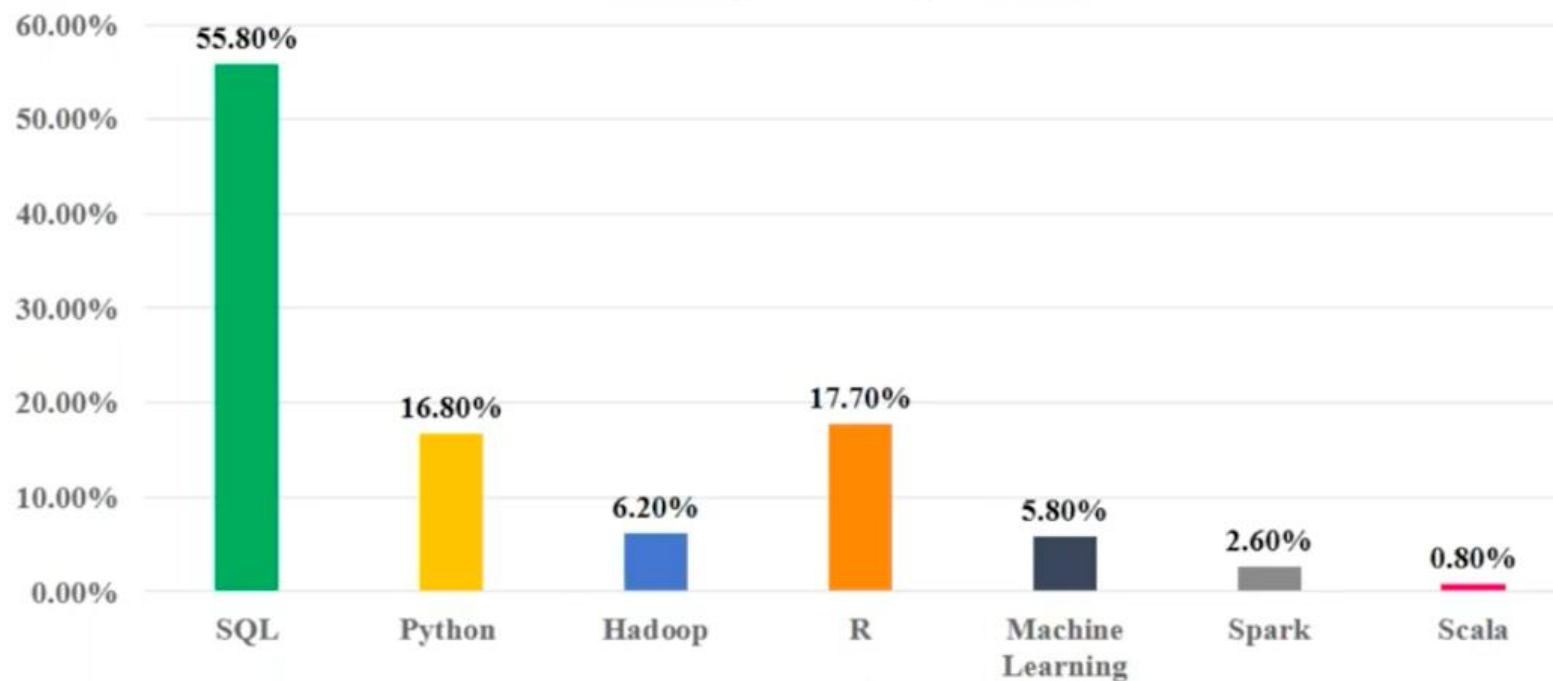
KSR Consulting Services



Why SQL is Important?



Data Processing Languages Usage %



KSR Consulting Services



SQL Databases



KSR Consulting Services



Why MySQL?

MySQL

Free (Open Source)

Highly configurable

High volume capabilities

Cross platform Compatibilities

Durability

Reliable

High Security

Easy to Use



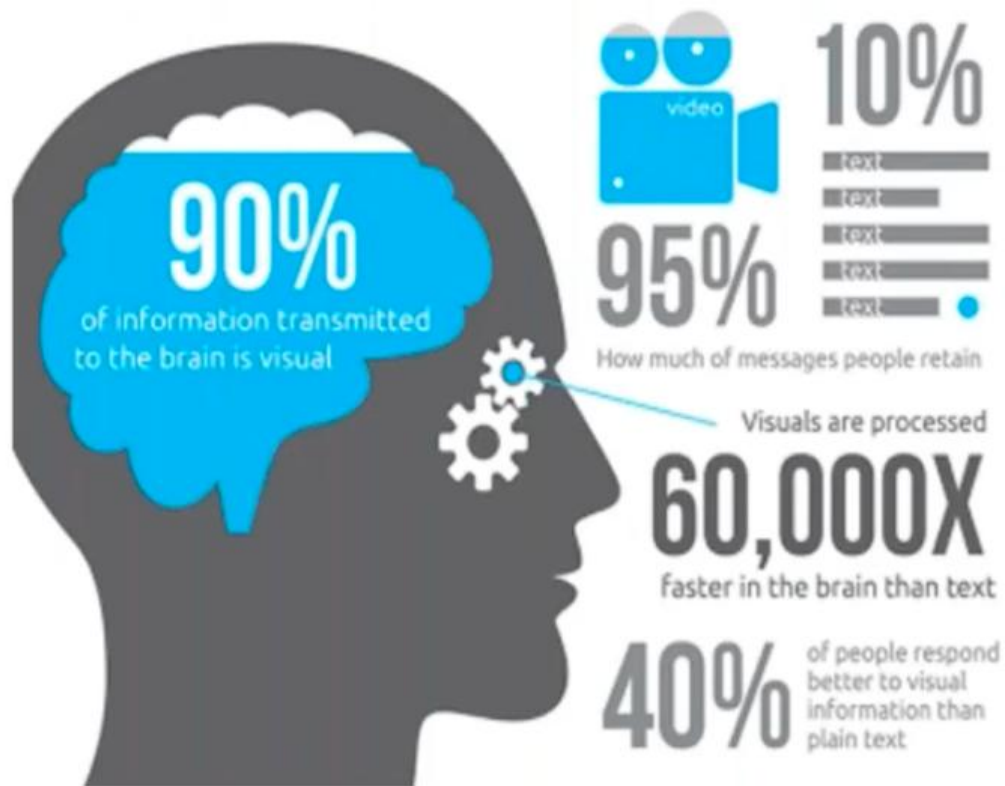
Adobe



KSR Consulting Services



Visualization Analogy



PURE TEXT

BLAH BLAH
1u w w w
All w w w BLAH
BLAH w w w w w
BLAH BLAH BLAH
BLAH w w w w w



VISUAL



STORYTELLING

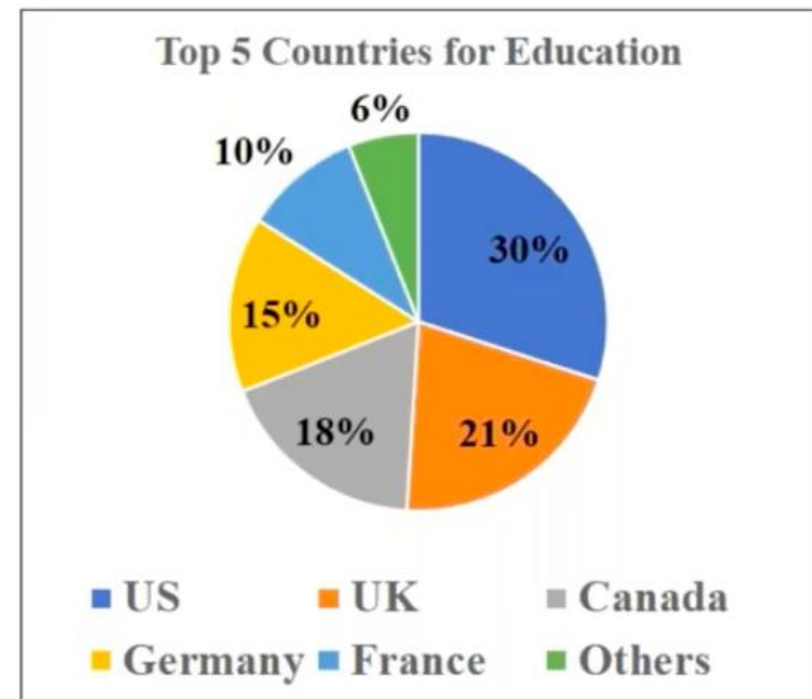
KSR Consulting Services



Visualization Analogy



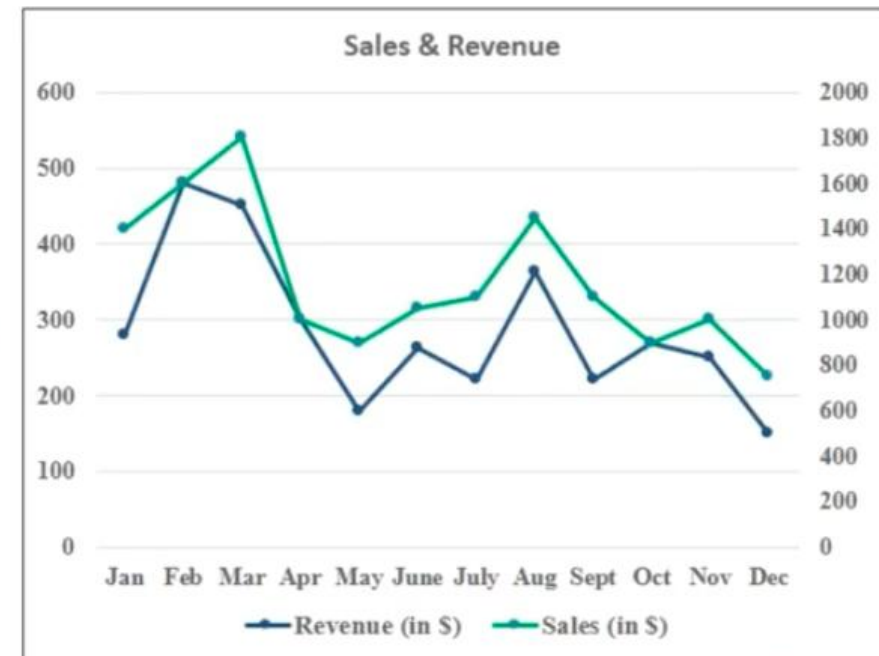
Country	Education
US	30%
UK	21%
Canada	18%
Germany	15%
France	10%
Others	6%



Visualization Analogy



Month	Sales (in \$)	Revenue (in \$)
Jan	1400	280
Feb	1600	480
Mar	1800	450
Apr	1000	300
May	900	180
June	1050	262.5
July	1100	220
Aug	1450	362.5
Sept	1100	220
Oct	900	270
Nov	1000	250
Dec	750	150



Visualization Analogy



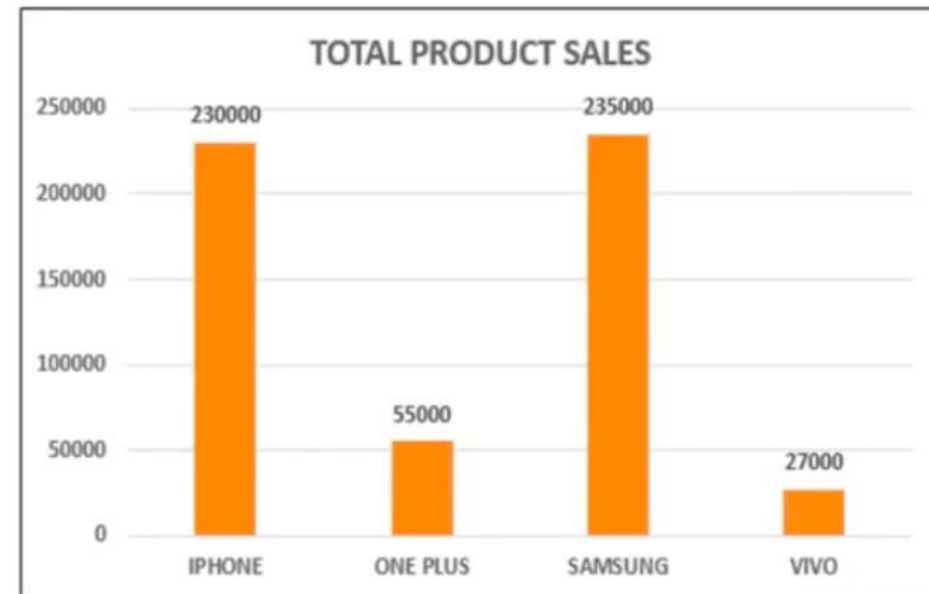
STORES	PRODUCTS	SALES
STORE 1	IPHONE	₹ 70,000
STORE 1	SAMSUNG	₹ 45,000
STORE 2	SAMSUNG	₹ 50,000
STORE 3	IPHONE	₹ 75,000
STORE 2	IPHONE	₹ 85,000
STORE 2	SAMSUNG	₹ 45,000
STORE 1	ONE PLUS	₹ 5,000
STORE 3	VIVO	₹ 12,000
STORE 3	SAMSUNG	₹ 50,000
STORE 1	VIVO	₹ 15,000
STORE 3	SAMSUNG	₹ 45,000
STORE 2	ONE PLUS	₹ 50,000



Visualization Analogy



STORES	PRODUCTS	SALES
STORE 1	IPHONE	₹ 70,000
STORE 1	SAMSUNG	₹ 45,000
STORE 2	SAMSUNG	₹ 50,000
STORE 3	IPHONE	₹ 75,000
STORE 2	IPHONE	₹ 85,000
STORE 2	SAMSUNG	₹ 45,000
STORE 1	ONE PLUS	₹ 5,000
STORE 3	VIVO	₹ 12,000
STORE 3	SAMSUNG	₹ 50,000
STORE 1	VIVO	₹ 15,000
STORE 3	SAMSUNG	₹ 45,000
STORE 2	ONE PLUS	₹ 50,000



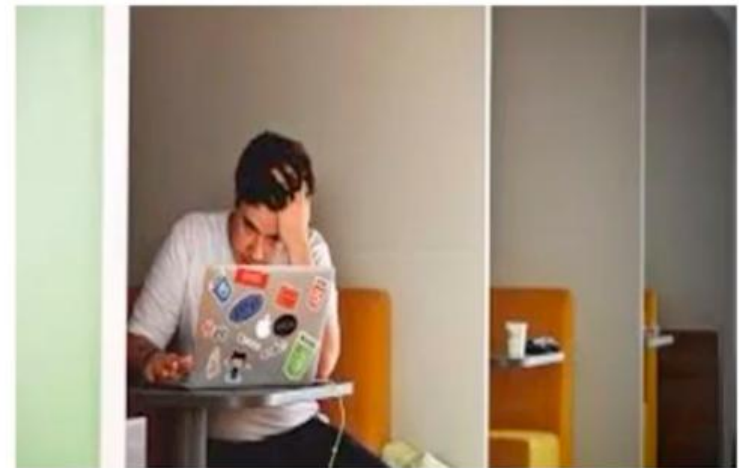
KSR Consulting Services



Life without Visualization



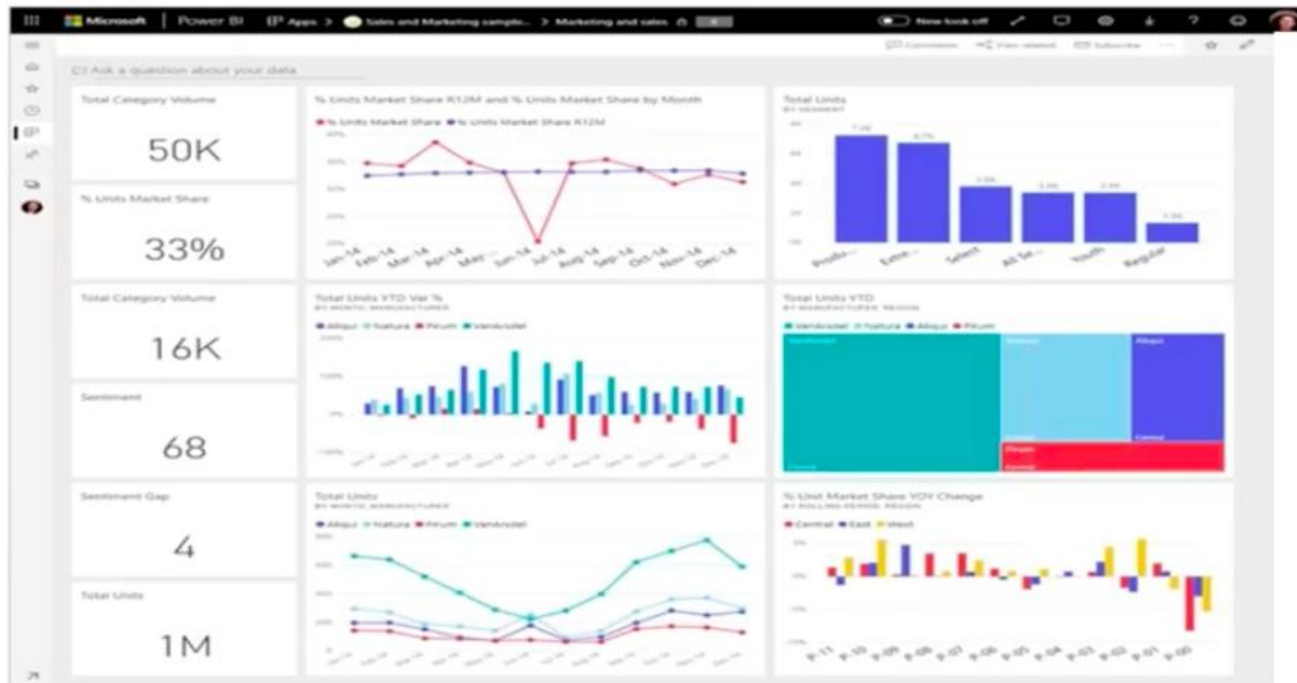
	Gender	Age	H1	F1	H2	F2	H3	F3	Height	Foot	Factor
1	Female	19.00	156.50	23.30	155.80	23.50	156.50	23.10	156.27	23.30	14.91
2	Male	21.00	165.50	25.50	165.30	24.50	166.50	25.60	165.77	25.20	15.20
3	Male	35.00	167.00	24.50	167.50	24.40	168.50	24.80	167.67	24.57	14.65
4	Female	19.00	158.50	24.60	158.50	23.50	158.70	23.50	158.57	23.87	15.05
5	Female	27.00	162.50	25.80	163.40	25.40	162.80	25.70	162.90	25.63	15.74
6	Female	19.00	159.50	23.50	158.00	23.40	158.00	23.60	158.50	23.50	14.83
7	Female	19.00	162.50	24.20	162.00	24.00	161.80	24.30	162.10	24.17	14.91
8	Female	20.00	165.40	23.90	165.00	23.80	166.00	23.80	165.47	23.83	14.40
9	Female	20.00	168.00	24.40	168.50	24.40	169.90	24.40	168.80	24.40	14.45
10	Female	22.00	159.20	24.70	159.50	24.50	160.00	24.50	159.57	24.57	15.40
11	Female	26.00	158.50	23.70	156.50	23.60	156.90	23.40	157.30	23.57	14.98
12	Female	19.00	162.00	24.30	161.00	24.60	160.90	24.40	161.30	24.43	15.15
13	Female	20.00	153.50	23.20	153.50	23.70	152.50	23.00	153.17	23.30	15.21
14	Female	21.00	158.00	24.90	157.80	24.60	158.50	24.90	158.10	24.80	15.69
15	Female	20.00	154.50	24.50	156.40	25.10	154.50	24.30	155.13	24.63	15.88
16	Female	20.00	163.00	23.00	161.50	24.00	163.50	23.50	162.67	23.50	14.45
17	Female	22.00	182.00	27.50	181.50	27.00	182.00	28.00	181.83	27.50	15.12
18	Male	27.00	175.00	27.50	178.50	27.50	176.50	27.50	176.67	27.50	15.57
19	Male	19.00	153.10	23.30	152.00	23.00	151.00	22.50	152.03	22.93	15.08
20	Female	22.00	170.00	25.00	172.50	25.60	170.50	25.50	171.00	25.37	14.83
21	Male	19.00	160.00	23.50	159.50	23.00	159.00	23.80	159.50	23.43	14.69
22	Female	20.00	155.50	23.20	154.40	23.00	153.50	22.50	154.47	22.90	14.83
23	Female	21.00	151.50	23.50	151.00	23.80	150.80	23.10	151.10	23.47	15.53
24	Female	21.00	158.00	23.50	158.50	24.20	157.80	23.50	158.10	23.73	15.01



KSR Consulting Services



Life with Visualization



Dashboards / Reports can be accessed through smart phones, Tablets

KSR Consulting Services



Importance of Visualization



Visualization Helping decision makers understand how the business data is being interpreted to determine business decisions

Leading the target audience to focus on business

Handling large amounts of data in a pictorial format

Converting trends into business strategies

Revealing unnoticed key points about the data



Business Intelligence



Business intelligence (BI) combines business analytics, data mining, data visualization, data tools and infrastructure, and best practices to help organizations to make more data-driven decisions

KSR Consulting Services



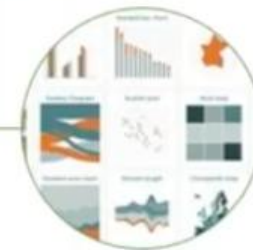
What is Power BI?



Analyze Data



Clean Data



Visualization



KSR Consulting Services



BI tools available in market



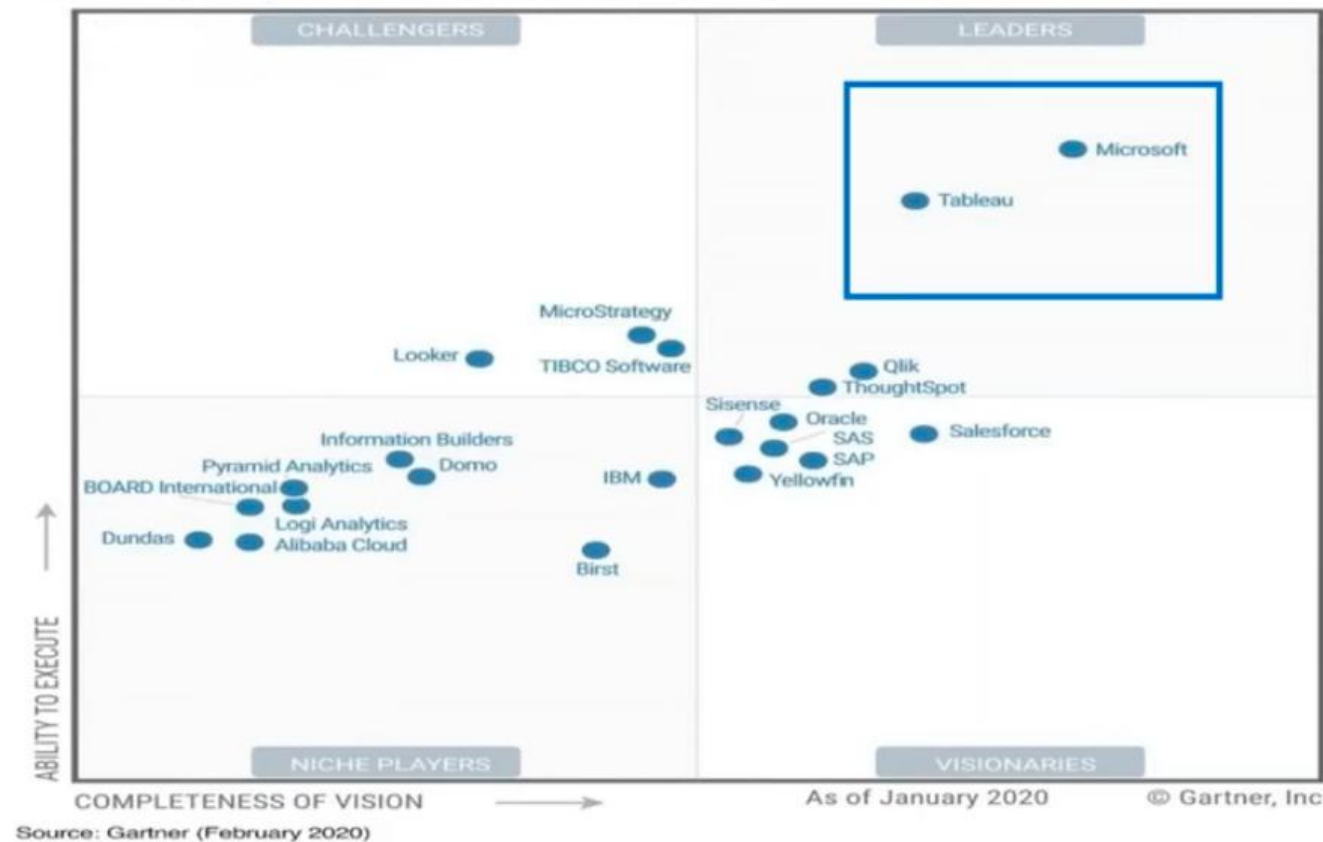
KSR Consulting Services



2020 Gartner Magic Quadrant for BI and Analytics



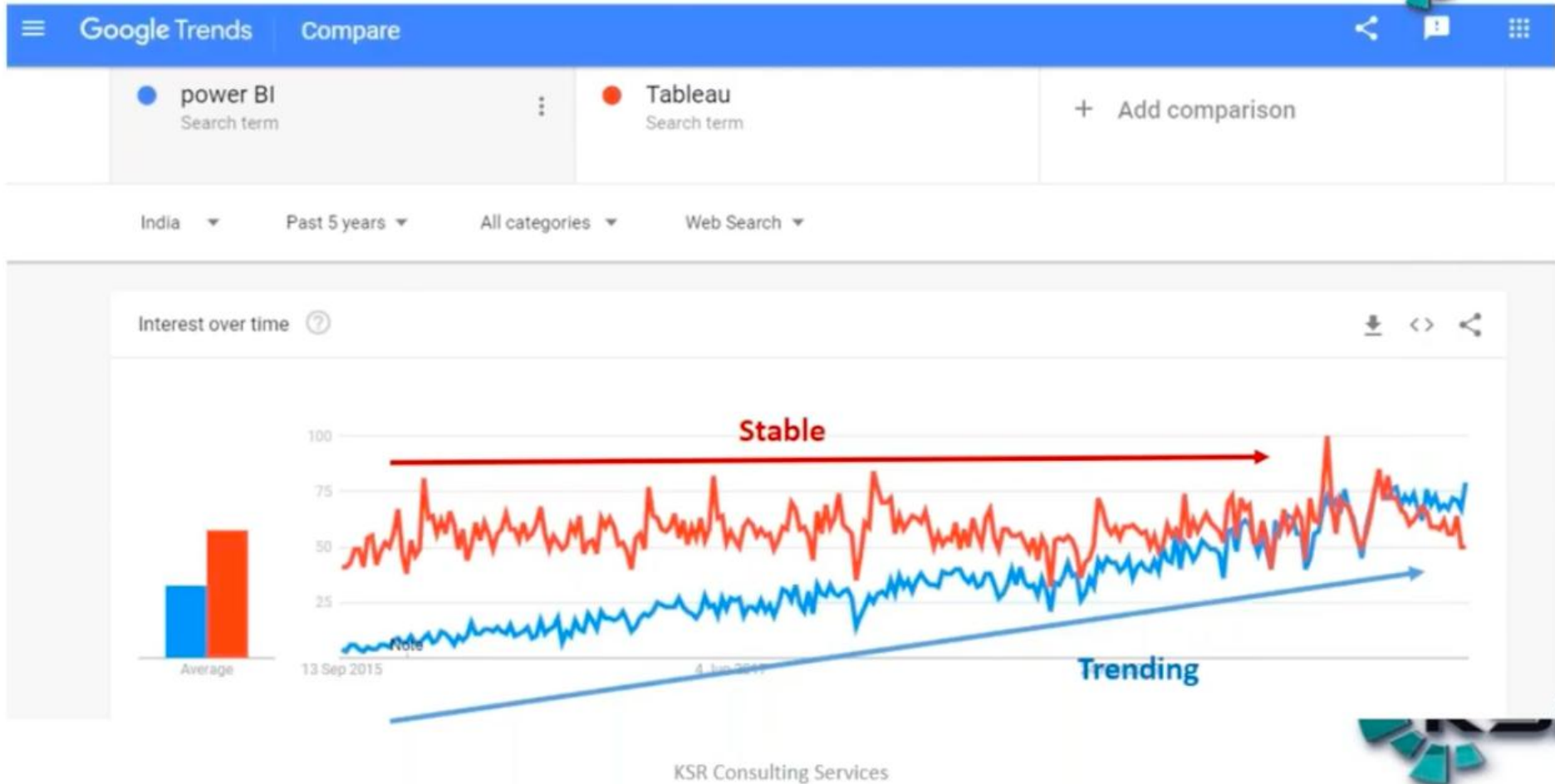
Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms



KSR Consulting Services



Google Trends Power BI vs. Tableau



History of Power BI



- July 24, 2015
- Microsoft Product
- Popular Companies using Power BI
 - Adobe,
 - Dell,
 - HP,
 - Honeywell,
 - Edwards

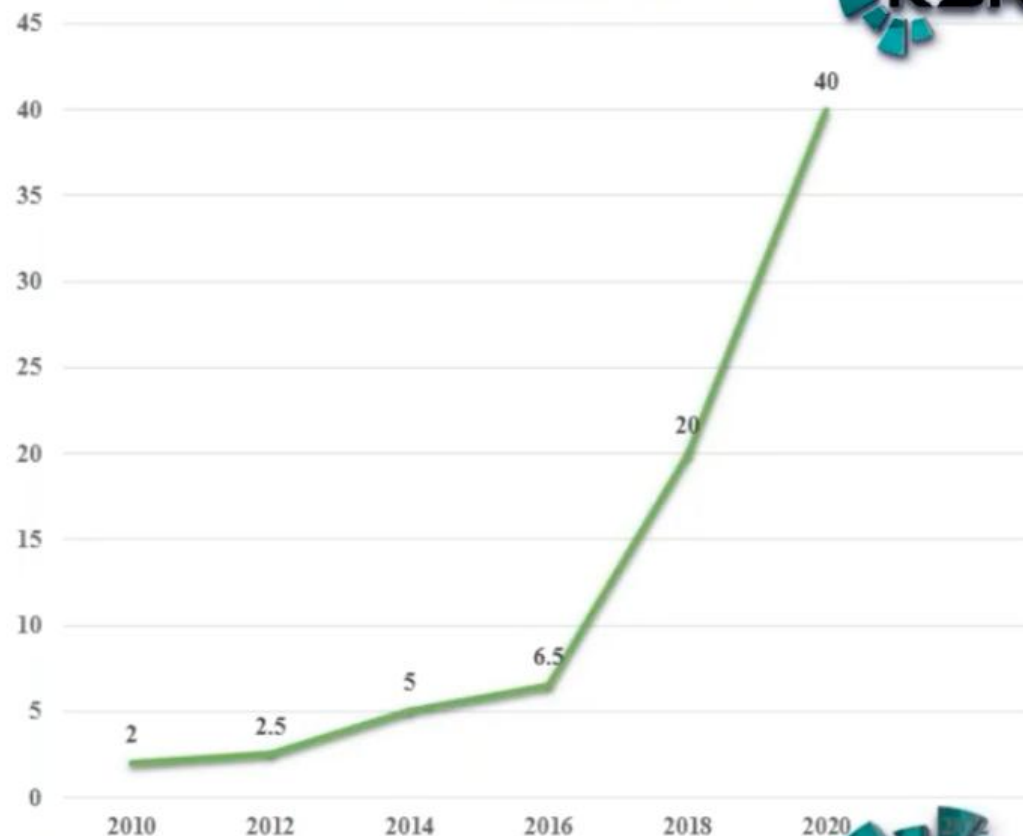
KSR Consulting Services



Data Size & Data Growth

Size - Expansion	Size	10 power
8 Bits	1 Byte	-
1024 Bytes	1 Kilobyte	3
1024 Kilobytes	1 Megabyte	6
1024 Megabytes	1 Gigabyte	9
1024 Gigabytes	1 Terabyte	12
1024 Terabytes	1 Petabyte	15
1024 Petabytes	1 Exabyte	18
1024 Exabytes	1 Zettabyte	21
1024 Zettabytes	1 Yottabyte	24

Data Created by Year (Ziga Byte)



KSR Consulting Services



Cloud Computing



KSR Consulting Services



Need for Cloud Computing



- Cost-effective
- Unlimited storage space
- Backup and Recovery
- Efficiency
- Flexibility
- Strategic edge
- Faster deployment



KSR Consulting Services



Azure

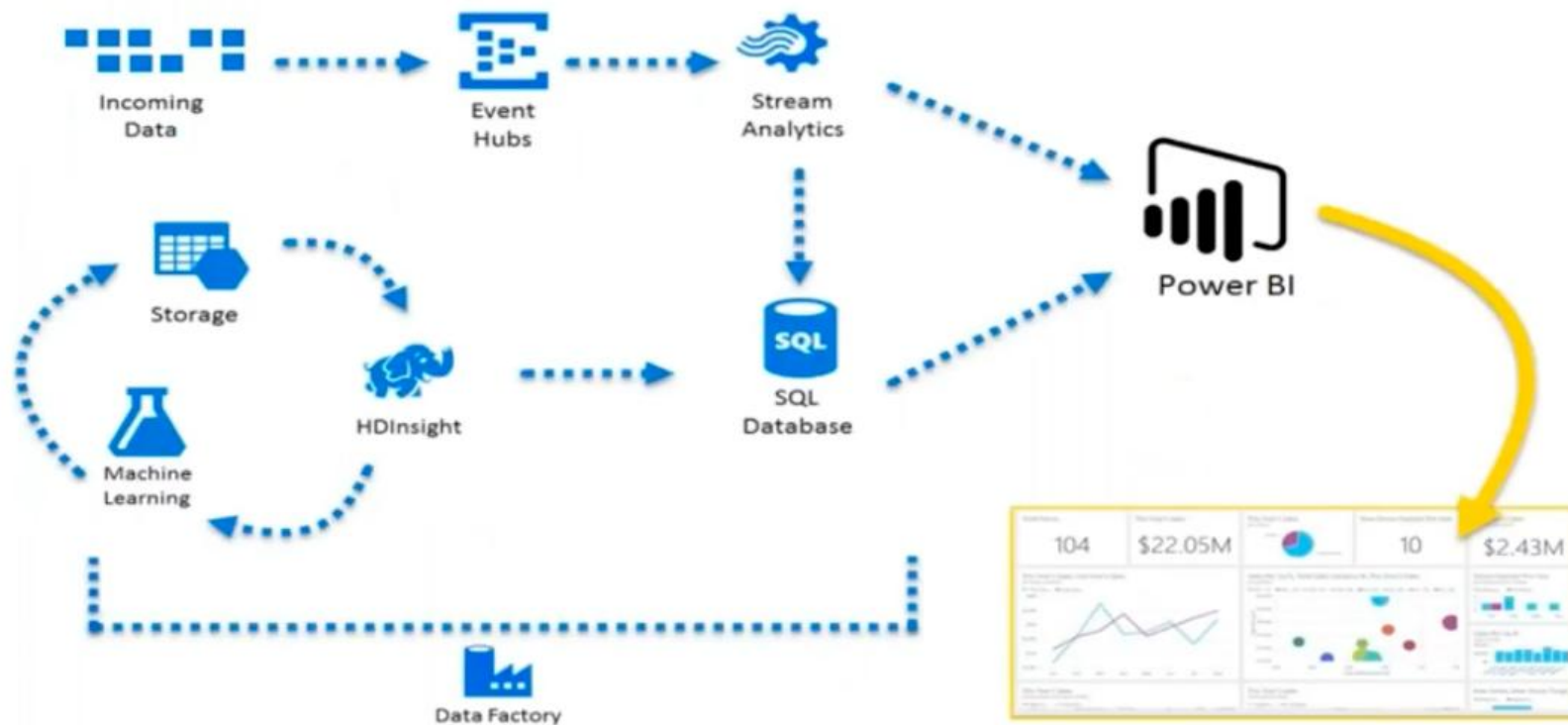


- Limitless data and analytics capabilities
- 2nd largest cloud computing
- Cost Efficient Platform
- World wide access
- Stability and speed
- Environment friendly



KSR Consulting Services

Azure with Power BI



KSR Consulting Services

