

BLM442 Keşif aktivitesi-2: SQLite üzerinde veri analizi

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Kullanılan datasetlerin adı: Company Acquisitions Data , Countries of the World

Dataset url: <https://www.kaggle.com/shivamb/company-acquisitions-7-top-companies> ,
<https://www.kaggle.com/fernandol/countries-of-the-world>

İntihal:

Netten alınacak kısmi kod parçaları önceden kod içinde/raporda belirtilmek ve soru sorulduğunda cevaplanması durumunda sıkıntı çıkarmayacaktır. (i) İnternet kaynağını belirtmeyen/açıklayamayan/üzerinde geliştirme yapmayan veya (ii) birbirleriyle benzer/aynı çalışma teslim edenlerin aktiviteleri sıfır üzerinden değerlendirilecektir.

KA-2 Gönderim şekli

1-pdf olarak "ogrenciNo.pdf" dokümanını gönderme -calisma dosyasında (File -> Print Preview) sonrası oluşan html dosyasını yazdırıy deyip pdf olarak kaydetme veya -(File -> Download as -> HTML) şeklinde indirip pdf'e çevirme <http://html2pdf.com/>

2-(File -> Download as -> Notebook) indirip "ogrenciNo.ipynb" dokümanını gönderme

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Problemlerinizin SELECT, WHERE, ORDER BY, SELECT TOP, LIKE, IN, BETWEEN, AS, INTERSECT, GROUP BY, HAVING, COUNT(), MIN() and MAX(), AVG(), SUM(), INNER JOIN, RIGHT (OUTER) JOIN, LEFT (OUTER) JOIN vs. keyword'lerinden birkaçını içermesini sağlayınız.

Problem 1: Dosyayı import ediniz.

In [1]:

```
.mode csv
.import acquisitions.csv acquisitions
.mode columns
.headers on
```

Problem 2: Veritabanında ilk 12 satırı gösteriniz.

In [2]:

```
select * from acquisitions limit 12
```

AcquisitionID	AcquisitionMonth	AcquisitionMonthDate	AcquisitionYear	Company	Business
Country	Value (USD)	Derived products	ParentCompany		
ACQ99	November	11	2015	bebop	Cloud software
SA	380000000	Google Cloud Platform	Google		
ACQ98	November	11	2015	Fly Labs	Video editing
SA		Google Photos	Google		
ACQ97	December	8	2015	Clearleap	Cloud-based vi
SA			IBM		
ACQ96	December	18	2015	Metanautix	Big Data Analy
SA			Microsoft		
ACQ95	December	21	2015	Talko, Inc	Mobile communi
USA			Microsoft		

USA				MICROSOFT		
ACQ94	January	7		2016	Emotient	Emotion recogn
SA		Face ID, Animoji[100]	Apple			
ACQ93	January	15		2016	Iris Analy	Real time tran
ER			IBM			
ACQ92	January	19		2016	Teacher Ga	Education soft
IN			Microsoft			
ACQ915	July	30		1987	Forethoug	Computer softw
SA	14000000		Microsoft			
ACQ914	March	2		1988	Network In	Software
SA			Apple			
ACQ913	June	7		1988	Orion Netw	Satellite comm
SA			Apple			
ACQ912	June	27		1988	Styleware	Computer softw
SA		AppleWorks GS	Apple			

Problem 3: Google şirketinin yaptığı satın almaları gösteriniz.

In [3]:

```
select * from acquisitions where ParentCompany="Google";
```

AcquisitionID	AcquisitionMonth	AcquisitionMonthDate	AcquisitionYear	Company	Business
Country	Value (USD)	Derived products	ParentCompany		
ACQ99	November	11	2015	bebop	Cloud software
SA	380000000	Google Cloud Platform	Google		
ACQ98	November	11	2015	Fly Labs	Video editing
SA		Google Photos	Google		
ACQ831	February	12	2001	Deja	Usenet
SA		Google Groups	Google		
ACQ82	February	12	2016	BandPage	Platform for m
USA		YouTube	Google		
ACQ818	September	20	2001	Outride	Web search eng
SA		Google Personalized S	Google		
ACQ81	February	18	2016	Pie	Enterprise com
GP		Spaces (app)	Google		
ACQ793	February		2003	Pyra Labs	Weblog softwar
SA		Blogger	Google		
ACQ789	April		2003	Applied Se	Online adverti
SA	102000000	AdSense, AdWords	Google		
ACQ788	April		2003	Neotonic S	Customer relat
SA		Google Groups, Gmail	Google		
ACQ779	September	30	2003	Kaltix	Web search eng
SA		iGoogle	Google		
ACQ778	October		2003	Genius Lab	Blogging
SA		Blogger	Google		
ACQ777	October		2003	Sprinks	Online adverti
SA		AdSense, AdWords	Google		
ACQ766	May	10	2004	Ignite Log	HTML editor
SA		Google Sites	Google		
ACQ763	July	13	2004	Picasa	Image organize
SA		Picasa, Blogger	Google		
ACQ759	September		2004	ZipDash	Traffic analys
SA		Google Maps	Google		
ACQ757	October		2004	Where2	Map analysis
US		Google Maps	Google		
ACQ753	October	27	2004	Keyhole, I	Map analysis
SA		Google Maps, Google E	Google		
ACQ739	March	28	2005	Urchin Sof	Web analytics
SA		Google Analytics	Google		
ACQ732	May	12	2005	Dodgeball	Social network
SA		Google Latitude	Google		
ACQ73	May	2	2016	Synergyse	Interactive tu
AN		Google Docs	Google		
ACQ726	July		2005	Reqwireles	Mobile browser
AN		Google Mobile	Google		
ACQ725	July	19	2005	Akwan Info	Search engines
RA		Internet backbone	Google		
ACQ720	August	17	2005	Android In	Mobile operati
SA	50000000	Android	Google		
ACQ712	November		2005	Skia Inc.	Graphics libra
SA		Skia	Google		
ACQ704	December	27	2005	Phatbits	Widget engine

ACQ703	December	Google Desktop	Google	2005	bruNET Gmb	Mobile softwar
GER		31				
ACQ702	December	Google Mobile	Google	2005	allPAY Gmb	Mobile softwar
GER		31				
ACQ700	January	Google Mobile	Google	2006	dMarc Broa	Advertising
SA	102000000	AdSense	Google			
ACQ692	February	14		2006	Measure Ma	Weblog softwar
SA		Google Analytics	Google			
ACQ688	March	9		2006	Upstartle	Word processor
SA		Google Docs	Google			
ACQ687	March	14		2006	@Last Soft	3D modeling so
SA		Google Sketchup	Google			
ACQ684	April	9		2006	Orion	Web search eng
US		Google Search	Google			
ACQ68	June	22		2016	Webpass	Internet servi
SA		Google Fiber	Google			
ACQ676	June	1		2006	2Web Techn	Online spreads
SA		Google Spreadsheet	Google			
ACQ67	July	6		2016	Moodstocks	Image recognit
RA		Google Photos	Google			
ACQ668	August	15		2006	Neven Visi	Computer visio
ER		Picasa, Google Goggle	Google			
ACQ661	October	9		2006	YouTube	Video sharing
SA	1650000000	YouTube	Google			
ACQ66	July	8		2016	Anvato	Cloud-based vi
SA		Google Cloud Platform	Google			
ACQ654	October	31		2006	JotSpot	Web applicatio
SA		Google Sites	Google			
ACQ65	July	12		2016	Kifi	Link managemen
SA		Spaces (app)	Google			
ACQ649	December	18		2006	Endoxon	Mapping
HE	28000000	Google Maps	Google			
ACQ645	February	16		2007	Adscape	In-game advert
SA	23000000	AdSense	Google			
ACQ642	March	16		2007	Trendalyze	Statistical so
WE		Google Analytics	Google			
ACQ64	July	27		2016	LaunchKit	Mobile tool ma
SA		Android	Google			
ACQ639	April	13		2007	DoubleClic	Online adverti
SA	3100000000	AdSense	Google			
ACQ638	April	17		2007	Tonic Syst	Presentation p
SA		Google Docs	Google			
ACQ637	April	19		2007	Marratech	Videoconferenc
WE	15000000	Google Talk, Google H	Google			
ACQ631	May	11		2007	GreenBorde	Computer secur
SA		Google Chrome	Google			
ACQ630	May	28		2007	Crusix	Social network
SA		YouTube	Google			
ACQ629	June	1		2007	Panoramio	Photo sharing
SP		Panoramio	Google			
ACQ628	June	3		2007	FeedBurner	Web feed
SA	100000000	FeedBurner	Google			
ACQ626	June	5		2007	PeakStream	Parallel proce
SA		Android	Google			
ACQ624	June	19		2007	Zenter	Presentation p
SA		Google Docs	Google			
ACQ621	July	2		2007	GrandCentr	Voice over IP
SA	45000000	Google Voice	Google			
ACQ620	July	9		2007	Postini	Communications
SA	625000000	Gmail	Google			
ACQ618	July	20		2007	ImageAmeri	Aerial photogr
SA		Google Maps	Google			
ACQ61	August	8		2016	Orbitera	Cloud software
SA	100000000	Google Cloud Platform	Google			
ACQ607	September	27		2007	Zingku	Social network
SA		Google Mobile	Google			
ACQ604	October	9		2007	Jaiku	Microblogging
IN		Google Mobile	Google			
ACQ58	September	8		2016	Apigee	API management
SA	625000000	Google Cloud Platform	Google			
ACQ57	September	15		2016	Urban Engi	Location-based
SA		Google Maps	Google			
ACQ566	July	30		2008	Omnisio	Online video
SA	15000000	YouTube	Google			
ACQ564	September	12		2008	TNC	Weblog softwar
OR		Blogger	Google			

ACQ56	September	19	Google	2016	API.AI	Natural language
SA			Google Assistant	Google		
ACQ550	August	5		2009	On2	Video compress
SA	133000000		WebM, YouTube	Google		
ACQ547	September	16		2009	reCAPTCHA	Security
SA			Google Books	Google		
ACQ544	November	9		2009	Gizmo5	Voice over IP
SA	30000000		Google Talk, Google H	Google		
ACQ543	November	9		2009	AdMob	Mobile adverti
SA	750000000		DoubleClick, Invite M	Google		
ACQ542	November	23		2009	Teracent	Online adverti
SA			AdSense	Google		
ACQ540	December	4		2009	AppJet	Collaborative
SA			Google Wave, Google D	Google		
ACQ531	February	12		2010	Aardvark	Social search
SA	50000000		Aardvark	Google		
ACQ529	February	17		2010	reMail	Email search
SA			Gmail	Google		
ACQ527	March	1		2010	Picnik	Photo editing
SA			Picasa	Google		
ACQ525	March	5		2010	DocVerse	Microsoft Offi
SA	25000000		Google Docs	Google		
ACQ523	April	2		2010	Episodic	Online video p
SA			YouTube	Google		
ACQ521	April	12		2010	PlinkArt	Visual search
K			Google Goggles	Google		
ACQ520	April	20		2010	Agnilux	Server CPUs
SA			Android	Google		
ACQ518	April	27		2010	LabPixies	Gadgets
SR			iGoogle, Android	Google		
ACQ515	April	30		2010	BumpTop	Desktop enviro
AN	30000000		Android	Google		
ACQ511	May	18		2010	Global IP	Video and audi
SA	68200000		WebRTC	Google		
ACQ51	October	11		2016	FameBit	Branded conten
YouTube			Google			
ACQ509	May	20		2010	Simplify M	Music streamin
SA			Android	Google		
ACQ508	May	21		2010	Ruba.com	Travel
SA			iGoogle	Google		
ACQ504	June	3		2010	Invite Med	Advertising
SA	81000000		DoubleClick	Google		
ACQ50	October	24		2016	Eyefluence	Eye tracking,
Google VR			Google			
ACQ498	July	16		2010	Metaweb	Semantic searc
SA			Google Search	Google		
ACQ496	August			2010	Zetawire	Mobile payment
AN			Android, Google Walle	Google		
ACQ495	August	4		2010	Instantiat	Java/Eclipse/A
SA			Google Web Toolkit	Google		
ACQ494	August	5		2010	Slide.com	Social gaming
SA	228000000		Google+, Orkut, Googl	Google		
ACQ493	August	10		2010	Jambool	Social Gold pa
SA	70000000		Google+, Orkut	Google		
ACQ490	August	15		2010	Like.com	Visual search
SA	100000000		Google Shopping	Google		
ACQ487	August	30		2010	SocialDeck	Social gaming
AN			Google, Google+	Google		
ACQ486	August	30		2010	Angstro	Social network
SA			Google, Google Alert	Google		
ACQ485	September	13		2010	Quiksee	Online video
SR	10000000		Google Maps	Google		
ACQ48	November	5		2016	LeapDroid	Android Emulat
SA			Android	Google		
ACQ479	September	28		2010	Plannr	Schedule manag
SA			Google+	Google		
ACQ478	October	1		2010	BlindType	Touch typing
RE			Android	Google		
ACQ470	December	3		2010	Widevine T	DRM
SA			Google TV	Google		
ACQ469	December	3		2010	Phonetic A	Speech synthes
UK			Google Voice, Google	Google		
ACQ467	January	13		2011	eBook Tech	E-book
SA			Google Books	Google		
ACQ465	January	25		2011	SayNow	Voice recognit
SA			Google Voice	Google		
ACQ463	March	1		2011	Zynamics	Security

ACQ455	March	1		2011	Dynamics	Security
ER			Project Zero (Google)	Google		
ACQ461	March	7		2011	Next New N	Online video
SA			YouTube	Google		
ACQ460	March	7		2011	BeatThatQu	Price comparis
K	65000000		Google Shopping	Google		
ACQ459	March	16		2011	Green Parr	Digital video
RL			YouTube	Google		
ACQ455	April	8		2011	PushLife	Service provid
AN	25000000		Google Play	Google		
ACQ454	April	12		2011	ITA Softwa	Travel technol
SA	676000000		Google Flights	Google		
ACQ452	April	26		2011	TalkBin	Mobile softwar
SA			Android	Google		
ACQ45	November	21		2016	Qwiklabs	Cloud based ha
Google Cloud Platform			Google			
ACQ449	May	23		2011	Sparkbuy	Product search
SA			Google Shopping	Google		
ACQ446	June	3		2011	PostRank	Social media a
AN			Google+ Google Analyt	Google		
ACQ444	June	9		2011	Admeld	Online adverti
SA	400000000		DoubleClick, Invite M	Google		
ACQ441	June	18		2011	SageTV	Media center
SA			Google TV, Google Fib	Google		
ACQ439	July	8		2011	Punchd	Loyalty progra
SA			Google Offers	Google		
ACQ438	July	21		2011	Fridge	Social groups
SA			Google+	Google		
ACQ437	July	23		2011	PittPatt	Facial recogni
SA			Android	Google		
ACQ436	August	1		2011	Dealmap	One deal a day
SA			Google Offers	Google		
ACQ432	August	15		2011	Motorola M	Mobile device
SA	12500000000		Android, Google TV, A	Google		
ACQ429	September	7		2011	Zave Netwo	Digital coupon
SA			Google Offers	Google		
ACQ428	September	8		2011	Zagat	Restaurant rev
SA	151000000		Google Places, Google	Google		
ACQ427	September	19		2011	DailyDeal	One deal a day
GER	114000000		Google Offers	Google		
ACQ423	October	11		2011	SocialGrap	Social media a
AN			Google+ Google Analyt	Google		
ACQ419	November	10		2011	Apture	Instantaneous
SA			Google Search	Google		
ACQ418	November	14		2011	Katango	Social circle
SA			Google+	Google		
ACQ412	December	9		2011	RightsFlow	Music rights m
SA			YouTube	Google		
ACQ411	December	13		2011	Clever Sen	Local recommen
USA			Google Maps	Google		
ACQ41	December	13		2016	Cronologic	Smartwatches
SA			Android Wear	Google		
ACQ408				2012	WIMM Labs	Android-powere
SA			Android Wear	Google		
ACQ400	March	16		2012	Milk, Inc	Software compa
SA			Google+	Google		
ACQ40	January	5		2017	Limes Audi	Voice communic
WE			Google Duo, Google Ha	Google		
ACQ399	April	2		2012	TxVia	Online payment
SA			Google Wallet, Google	Google		
ACQ387	June	4		2012	Meebo	Social network
SA	100000000		Google+	Google		
ACQ385	June	5		2012	Quickoffic	Mobile office
SA			Google Docs	Google		
ACQ380	July	20		2012	Sparrow	Mobile apps
RA	25000000		Gmail	Google		
ACQ377	August	1		2012	Wildfire I	Social media m
SA	450000000		Google, Google+	Google		
ACQ372	September	7		2012	VirusTotal	Security
SP				Google		
ACQ371	September	17		2012	Nik Softwa	Photography
SA			Google, Android	Google		
ACQ37	January	19		2017	Fabric	Crash analytic
SA			Firebase	Google		
ACQ368	October	1		2012	Viewdle	Facial recogni
KR	45000000		Android	Google		
ACQ360	November	28		2012	Incentive	Digital coupon
SA			Google Offers	Google		

SA		Google	Google			
ACQ359	November	30	2012	BufferBox	Package delive	
AN	17000000	Google Shopping, Andr	Google			
ACQ35	March	8	2017	Kaggle	Data science	
SA		Google Cloud Platform	Google			
ACQ349	February	6	2013	Channel In	Product ecomme	
SA	125000000	Google Shopping	Google			
ACQ343	March	12	2013	DNNresearch	Deep Neural Ne	
AN		Google, X	Google			
ACQ341	March	15	2013	Talaria Te	Cloud computin	
SA		Google Cloud	Google			
ACQ34	March	9	2017	AppBridge	Productivity s	
SA		Google Docs	Google			
ACQ336	April	12	2013	Behavio	Social Predict	
SA		Google Now	Google			
ACQ334	April	23	2013	Wavii	Natural Langua	
SA	30000000	Google Knowledge Grap	Google			
ACQ324	May	23	2013	Makani Pow	Airborne wind	
SA		X	Google			
ACQ320	June	11	2013	Waze	GPS navigation	
SR	966000000	Google Maps , Waze	Google			
ACQ295	September	16	2013	Bump	Mobile softwar	
SA		Google Photos	Google			
ACQ291	October	2	2013	Flutter	Gesture recogn	
SA	40000000	Google, Android, X	Google			
ACQ29	May	10	2017	Owlchemy L	Virtual realit	
SA		Google VR	Google			
ACQ285	October	22	2013	FlexyCore	DroidBooster A	
RA	23000000	Android	Google			
ACQ279	December	2	2013	SCHAFT, In	Robotics, huma	
PN		X	Google			
ACQ276	December	3	2013	Industrial	Robotic arms,	
SA		X	Google			
ACQ274	December	4	2013	Redwood Ro	Robotic arms	
SA		X	Google			
ACQ273	December	5	2013	Meka Robot	Robots	
SA		X	Google			
ACQ272	December	6	2013	Holomni	Robotic wheels	
SA		X	Google			
ACQ270	December	7	2013	Bot & Doll	Robotic camera	
USA		X	Google			
ACQ269	December	8	2013	Autofuss	Ads and Design	
USA		X	Google			
ACQ261	January	4	2014	Bitspin	Timely App for	
HE		Android	Google			
ACQ256	January	13	2014	Nest Labs	Home automatio	
SA	3200000000	Nest Labs	Google			
ACQ254	January	15	2014	Impermium	Internet secur	
SA		Project Zero (Google)	Google			
ACQ251	January	26	2014	DeepMind T	Artificial int	
K	625000000	Google DeepMind	Google			
ACQ246	February	16	2014	SlickLogin	Internet Secur	
SR		Project Zero (Google)	Google			
ACQ244	February	21	2014	spider.io	Anti-click fra	
K		DoubleClick, Adsense	Google			
ACQ240	March	12	2014	GreenThrot	Gadgets	
SA		Android	Google			
ACQ233	April	14	2014	Titan Aero	High-altitude	
SA		Project Loon	Google			
ACQ23	July	12	2017	Halli Labs	Artificial int	
ND			Google			
ACQ228	May	2	2014	Rangespan	E-commerce	
K		Google Shopping	Google			
ACQ226	May	6	2014	Adometry	Online adverti	
SA		Google Analytics AdSe	Google			
ACQ225	May	7	2014	MyEnergy	Online energy	
SA		Nest Labs	Google			
ACQ224	May	7	2014	Stackdrive	Cloud computin	
SA		Google Cloud Platform	Google			
ACQ223	May	7	2014	Appetas	Restaurant web	
SA		Google My Business	Google			
ACQ221	May	16	2014	Quest Visu	Augmented real	
SA		Google Translate	Google			
ACQ220	May	19	2014	Divide	Mobile device	
SA		Android for Work	Google			
ACQ216	June	10	2014	Skybox Ima	Satellite	
SA	500000000	Google Maps, Project	Google			
ACQ214	June	10	2014	Alphabet M	Wireless	

ACQ214 SA	June	19	Google	Google	2014	Alphabet	Wireless
ACQ213 AN	June	19	DoubleClick	Google	2014	mDialog	Online adverti
ACQ211 SA	June	20	Nest Labs	Google	2014	Dropcam	Home monitorin
ACQ210 SA	June	25	Android	Google	2014	Appurify	Automated appl
ACQ207 SA	July	1	Google Play, Android	Google	2014	Songza	Music streamin
ACQ201 IN	July	23	Android	Google	2014	drawElemen	Graphics compa
ACQ20 LR	August	16	YouTube	Google	2017	AIMatter	Computer visio
ACQ2 SA	March	27	Google Images	Google	2018	Tenor	GIF image sear
ACQ195 SA	August	6	YouTube, Android	Google	2014	Director	Mobile video
ACQ194 SA	August	6	Google Hangouts, Goog	Google	2014	Emu	IM client
ACQ19 TWN	September	21	Google Pixel	Google	2017	HTC (porti	Talent and int
ACQ189 SA	August	17	Picasa	Google	2014	Jetpac	Artificial int
ACQ188 SA	August	23	X	Google	2014	Gecko Desi	Mechanical des
ACQ187 SA	August	26	Google Cloud Platform	Google	2014	Zync Rende	Cloud-based vi
ACQ184 SA	September	10	Verily	Google	2014	Lift Labs	Liftware
ACQ183 SA	September	11	Google+	Google	2014	Polar	Social polling
ACQ179 SA	October	21	Google Cloud Platform	Google	2014	Firebase	Data synchroni
ACQ178 K	October	23	Google DeepMind	Google	2014	Dark Blue	Artificial int
ACQ177 SA	October	24	Nest Labs	Google	2014	Revolv	Home automatio
ACQ172 SA	November	19	Android	Google	2014	RelativeWa	Mobile softwar
ACQ17 SA	September	26	Google Cloud Platform	Google	2017	Bitium	Single sign-on
ACQ167 SA	December	17	YouTube	Google	2014	Vidmaker	Video editing
ACQ158 SA	February	4	YouTube for Kids	Google	2015	Launchpad	Child-friendly
ACQ157 SA	February	8	Google+	Google	2015	Odysee	Multimedia sha
ACQ154 SA	February	23	Android Pay	Google	2015	Softcard	Mobile payment
ACQ153 USA	February	24	Google Play	Google	2015	Red Hot La	App advertisin
ACQ140 SA	April	16	Tilt Brush	Google	2015	Skillman &	Virtual realit
ACQ139 RL	April	16	Google Cardboard	Google	2015	Thrive Aud	Surround sound
ACQ136 SA	May	4	Google Inbox, Google	Google	2015	Timeful	Mobile softwar
ACQ134 SA	May	28	Android	Google	2015	Pulse.io	Mobile app opt
ACQ129 SA	June	18	Android, Google Play	Google	2015	Agawi	Mobile applica
ACQ125 SA	July	21	Android	Google	2015	Pixate	Mobile softwar
ACQ114 SA	September	21	Google Play Books	Google	2015	Oyster	E-book subscri
ACQ111 SA	September	30	Android	Google	2015	Jibe Mobil	Rich Communica
ACQ11 SA	October	9	Accelerated Mobile Pa	Google	2017	Relay Medi	AMP converter
ACQ108 OR	October	17	Street View	Google	2015	Digisfera	360-degree pho
ACQ10 SA	October	11	Google Play Music	Google	2017	60db	Podcasts

Problem 4: Google ve Microsoft şirketlerinin bulut yazılım alanında yaptığı satın almaları gösteriniz.

In [4]:

```
select * from acquisitions where (ParentCompany="Microsoft" or ParentCompany="Google")
and Business="Cloud software";
```

AcquisitionID	AcquisitionMonth	AcquisitionMonthDate	AcquisitionYear	Company	Business
Country	Value (USD)	Derived products	ParentCompany		
ACQ99	November	11	2015	bebop	Cloud software
SA	380000000	Google Cloud Platform	Google		
ACQ61	August	8	2016	Orbitera	Cloud software
SA	100000000	Google Cloud Platform	Google		

Problem 5: Genel olarak "yazılım" alanında yapılan tüm satın almaları gösteriniz.

In [5]:

```
select * from acquisitions where Business like "%software%"
```

AcquisitionID	AcquisitionMonth	AcquisitionMonthDate	AcquisitionYear	Company	Business
Country	Value (USD)	Derived products	ParentCompany		
ACQ99	November	11	2015	bebop	Cloud software
SA	380000000	Google Cloud Platform	Google		
ACQ92	January	19	2016	Teacher Ga	Education soft
IN			Microsoft		
ACQ915	July	30	1987	Forethoug	Computer softw
SA	14000000		Microsoft		
ACQ914	March	2	1988	Network In	Software
SA			Apple		
ACQ912	June	27	1988	Styleware	Computer softw
SA		AppleWorks GS	Apple		
ACQ911	July	11	1988	Claris	Computer softw
SA		FileMaker, iWork, iLi	Apple		
ACQ910	January	3	1989	Coral Soft	Computer softw
SA		Macintosh Common Lisp	Apple		
ACQ909	March	31	1991	Consumers	Software
AN			Microsoft		
ACQ908	June	29	1992	Fox Softwa	PC database so
SA			Microsoft		
ACQ907	February	28	1994	Softimage	Wholesale 3-D
AN			Microsoft		
ACQ906	September	27	1994	Altamira S	Software
SA			Microsoft		
ACQ905	November	1	1994	NextBase	Software
SA			Microsoft		
ACQ904	November	15	1994	One Tree S	Software
SA			Microsoft		
ACQ901	October	17	1995	The Blue R	Software
SA			Microsoft		
ACQ900	November	6	1995	Netwise	Computer softw
SA			Microsoft		
ACQ898	January	16	1996	Vermeer Te	Software
SA	133000000		Microsoft		
ACQ897	March	6	1996	VGA-Animat	Software
ER			Microsoft		
ACQ896	March	12	1996	Colusa Sof	Software
SA			Microsoft		
ACQ894	April	23	1996	Aspect Sof	Computer softw
SA	14150000		Microsoft		
ACQ893	June	11	1996	eShop	Software
SA			Microsoft		
ACQ891	November	1	1996	Panorama S	Software
AN			Microsoft		
ACQ890	February	3	1997	NetCarta	Internet softw
SA	20000000		Microsoft		
ACQ889	February	7	1997	NeXT	Unix-like hard
SA	404000000	Mac OS X, iOS, macOS,	Apple		
ACQ888	March	3	1997	Interse	Internet softw
SA			Microsoft		

ACQ884 AN	June	30	1997	LinkAge So	Internet softw
ACQ883 SA	August	5	Microsoft 1997	VXtreme	Internet video
ACQ879 SA	December 500000000	31	Microsoft 1997	Hotmail	Internet softw
ACQ878 SA	February	23	Microsoft 1998	Flash Comm	Enterprise ins
ACQ876 SA	April 40000000	15	Microsoft 1998	Firefly	Relationship m
ACQ875 SA	April	28	Microsoft 1998	MESA Group	Data sharing s
ACQ872 SA	July 21000000	17	Microsoft 1998	Webcal	Calendaring so
ACQ871 SA	August	25	Yahoo 1998	Valence Re	Internet softw
ACQ867 K	January 4926000	8	Microsoft 1999	Xemplar Ed	Software
ACQ866 SA	January	11	Apple 1999	FASA Inter	Computer game
ACQ864 SA	March	26	Microsoft 1999	Numinous T	Software
ACQ862 SA	April	27	Microsoft 1999	Interactiv	Web music soft
ACQ857 SA	June	7	Microsoft 1999	ShadowFact	Wholesale comp
ACQ856 SA	June	15	Microsoft 1999	Omnibrowse	Internet softw
ACQ855 SA	June 58900000	28	Microsoft 1999	Intrinsa	Defect detecti
ACQ854 WE	July 125420000	1	Microsoft 1999	Sendit	Application so
ACQ853 AN	July	7	Microsoft 1999	Zoomit	Encryption sof
ACQ852 K	July	21	Microsoft 1999	STNC	Community soft
ACQ850 SA	October	29	Microsoft 1999	Entropic	Software
ACQ848 SA	January 1375000000	7	Microsoft 2000	Visio Corp	Wholesale draw
ACQ847 SA	January	7	Microsoft 2000	NetSelecto	Internet softw
ACQ842 ER	April	11	Apple 2000	Astarte-DV	Software
ACQ840 SA	June	19	Apple 2000	Bungie Sof	Computer softw
ACQ838 SA	July	12	Microsoft 2000	NetGames	Software
ACQ833 SA			Microsoft 2000	SoundJam M	Software
ACQ832 SA		iTunes	Apple 2001	Bluefish L	Productivity s
ACQ828 SA	April 939884000	5	Apple 2001	Great Plai	Business manag
ACQ827 AN	May	2	Microsoft 2001	Intellisol	Software
ACQ825 AN	May 36000000	31	Microsoft 2001	NCompass L	Internet softw
ACQ823 SR	June 20000000	21	Microsoft 2001	Maximal In	Software
ACQ820 SA	July 1000000000	2	Microsoft 2001	Informix C	Database Softw
ACQ819 SA	July 14900000	9	IBM 2001	Spruce Tec	Graphics softw
ACQ816 SA	January 129000000	14	Apple 2002	CrossWorld	Software
ACQ815 SA	February 15000000	1	IBM 2002	Nothing Re	Special effect
ACQ812 SA	April 13000000	4	Apple 2002	Zayante	FireWire chips
ACQ811 SA	May	22	Apple 2002	Sales Mana	Software
ACQ810 SA	June 20000000	11	Microsoft 2002	Silicon Gr	Digital effect
ACQ808 SA	June 20000000	21	Apple 2002	Prismo Gra	Special-effect
ACQ806	July	1	LiveType (Final Cut S Apple 2002	Emagic	Music producti

ER	30000000	Logic Pro, GarageBand	Apple	-	-
ACQ805	July	12	2002	Navision	Software progr
EN	1330000000		Microsoft		
ACQ802	September	10	2002	XDegrees	Security softw
SA			Microsoft		
ACQ800	September	24	2002	Rare	Software and v
K	375000000		Microsoft		
ACQ798	October	6	2002	Access360	Software
SA			IBM		
ACQ793	February		2003	Pyra Labs	Weblog softwar
SA		Blogger	Google		
ACQ792	Feburary	21	2003	Rational S	Software Devel
USA	2100000000		IBM		
ACQ791	February	25	2003	Connectix	Software
SA			Microsoft		
ACQ790	March	3	2003	DCG	Internet softw
US			Microsoft		
ACQ786	May	14	2003	Think Dyna	Software
AN			IBM		
ACQ782	July	1	2003	Informatio	Software
SA			IBM		
ACQ781	July	15	2003	Apatrix	Software
US			IBM		
ACQ780	August	29	2003	3DO Co-Hig	Software
SA	450000		Microsoft		
ACQ774	December	17	2003	Green Past	Content manage
SA			IBM		
ACQ760	July	29	2004	Cyanea Sys	Application ma
SA			IBM		
ACQ752	November	19	2004	Systemcorp	Project Portfo
AN			IBM		
ACQ744	March		2005	Schemasoft	Software
AN		iWork	Apple		
ACQ743	March	2	2005	en'tegrate	Software
SA			Microsoft		
ACQ737	April	9	2005	Groove Net	Community soft
SA			Microsoft		
ACQ730	June	14	2005	blo.gs	Weblog softwar
SA		Yahoo! 360°	Yahoo		
ACQ728	June	21	2005	Sybari Sof	Software
SA			Microsoft		
ACQ716	September	19	2005	Alacris	Certificate ma
SA			Microsoft		
ACQ715	October	4	2005	Upcoming.o	Calendaring so
SA		Yahoo! Local	Yahoo		
ACQ711	November	1	2005	iPhrase Sy	Information ma
SA			IBM		
ACQ710	November	3	2005	media-stre	Software
WI			Microsoft		
ACQ703	December	31	2005	bruNET Gmb	Mobile softwar
GER		Google Mobile	Google		
ACQ702	December	31	2005	allPAY Gmb	Mobile softwar
GER		Google Mobile	Google		
ACQ698	January	19	2006	UMT-Softwa	Software
SA			Microsoft		
ACQ696	January	27	2006	ARGUS Semi	Semiconductor
SA			IBM		
ACQ694	February	13	2006	Seadragon	Software
SA			Microsoft		
ACQ692	February	14	2006	Measure Ma	Weblog softwar
SA		Google Analytics	Google		
ACQ690	March	7	2006	Onfolio	Internet softw
SA			Microsoft		
ACQ689	March	7	2006	Apptimum	Software
SA			Microsoft		
ACQ687	March	14	2006	@Last Soft	3D modeling so
SA		Google Sketchup	Google		
ACQ682	April	26	2006	AssetMetri	Enterprise sof
AN			Microsoft		
ACQ681	May	2	2006	BuildForge	Software Devel
SA			IBM		
ACQ680	May	4	2006	Vexcel	Mapping softwa
SA			Microsoft		
ACQ675	June	6	2006	ProClarity	Analysis softw
SA			Microsoft		
ACQ673	June	27	2006	Rembo Tech	Installation S
UI			IBM		

ACQ672 SA	July	17	2006	Softricity	application vi
ACQ671 SA	July	18	Microsoft 2006	Winternals	Software
ACQ669 SA	August	1	Microsoft 2006	Webify Sol	Service Orient
ACQ660 SA	October	12	IBM 2006	Colloquis	Natural langua
ACQ659 SA	October	12	Microsoft 2006	FileNet Co	Content manage
ACQ658 SA	October	16	IBM 2006	Silicon Co	Software
ACQ652 U	November	17	Color (Final Cut Stud Apple 2006	Kenet Work	Mobile softwar
ACQ650 US	December	4	Yahoo! Mobile Yahoo 2006	Proximity	Software
ACQ642 WE	March	16	Final Cut Server Apple 2007	Trendalyze	Statistical so
ACQ640 SA	March	26	Google Analytics Google 2007	devBiz Bus	Software tools
ACQ634 SA	May	3	Microsoft 2007	Tellme Net	Mobile phone s
ACQ632 SA	May	9	Microsoft 2007	SoftArtisa	Business Intel
ACQ617 SA	July	20	Microsoft 2007	Watchfire	Security Softw
ACQ61 SA	August	8	IBM 2016	Orbitera	Cloud software
ACQ608 SA	September	17	Google Cloud Platform Google 2007	Zimbra	Collaborative
ACQ605 SA	October	5	Zimbra Yahoo 2007	Parlano	Enterprise mes
ACQ596 SA	January	22	Microsoft 2008	Calista Te	Software
ACQ595 SA	January	29	Microsoft 2008	Solid Info	Database Softw
ACQ591 SA	February	7	IBM 2008	Caligari C	Software
ACQ589 CAN	Feburary	15	Microsoft 2008	Net Integr	Business Serve
ACQ588 SR	February	27	IBM 2008	YaData	Software
ACQ586 SA	March	14	Microsoft 2008	Rapt	Advertising yi
ACQ585 SA	March	19	Microsoft 2008	Komoku	Rootkit securi
ACQ584 AN	March	31	Microsoft 2008	90 Degree	Business intel
ACQ583 WE	April	3	Microsoft 2008	Telelogic	Enterprise sof
ACQ582 SA	April	14	IBM 2008	Farecast	Online search
ACQ581 SA	April	15	Microsoft 2008	Danger	Mobile Interne
ACQ579 SA	April	21	Microsoft 2008	FilesX	Application Re
ACQ574 SA	May	26	IBM 2008	Kidaro	Software
ACQ573 EL	June	4	Microsoft 2008	Quadreon	Software
ACQ572 SA	June	18	Microsoft 2008	Navic Netw	Management sof
ACQ564 OR	September	12	Microsoft 2008	TNC	Weblog softwar
ACQ563 SA	September	16	Blogger Google 2008	DATALlegro	Data software
ACQ561 SA	November	18	Microsoft 2008	Transitive	Virtualization
ACQ560 Twitter	November	24	IBM 2008	Values of	Social softwar
ACQ557 SA	May	5	IBM 2009	Exeros Ass	Data Discovery
ACQ551 SA	July	28	IBM 2009	SPSS Inc.	Statistical an
ACQ546 SA	September	22	IBM 2009	Interactiv	Software
ACQ538	December	10	Microsoft 2009	Sentillion	Identity and A

USA				Microsoft		
ACQ537	December	10		2009	Opalis Sof	Software
AN				Microsoft		
ACQ532	February	3		2010	Initiate S	Data integrity
USA				IBM		
ACQ530	February	16		2010	Intelliden	Network Automa
SA				IBM		
ACQ517	April	27		2010	Siri	Voice control
SA			Siri	Apple		
ACQ507	May	24		2010	Sterling C	Business softw
SA	1400000000			IBM		
ACQ501	July	1		2010	BigFix, In	Security and I
SA				IBM		
ACQ491	August	13		2010	Unica Corp	Marketing plan
SA	4800000000			IBM		
ACQ452	April	26		2011	TalkBin	Mobile softwar
SA			Android	Google		
ACQ445	June	7		2011	Prodiance	Software
SA				Microsoft		
ACQ442	June	9		2011	Sofa	Software desig
ED				Facebook		
ACQ422	October	12		2011	Platform C	Cluster and Gr
AN				IBM		
ACQ407	January	4		2012	Green Hat	Cloud based so
SA				IBM		
ACQ404	January	31		2012	Worklight	Software Devel
SR	70000000			IBM		
ACQ400	March	16		2012	Milk, Inc	Software compa
SA			Google+	Google		
ACQ396	April	13		2012	Varicent	Compensation a
AN				IBM		
ACQ394	April	25		2012	Vivisimo	Enterprise Sea
SA				IBM		
ACQ393	May	2		2012	Tealeaf Te	Customer Exper
SA				IBM		
ACQ370	September	24		2012	Butterfly	Data Analysis
K				IBM		
ACQ364	October	16		2012	Cabana	Mobile app bui
Twitter						
ACQ345	March			2013	osmeta	Mobile softwar
SA				Facebook		
ACQ335	April	22		2013	UrbanCode	Software deliv
SA				IBM		
ACQ320	June	11		2013	Waze	GPS navigation
SR	966000000		Google Maps , Waze	Google		
ACQ312	July	18		2013	Monoidics	Automatic veri
K				Facebook		
ACQ295	September	16		2013	Bump	Mobile softwar
SA			Google Photos	Google		
ACQ27	May	31		2017	XCC (divis	Collaboration
ER				IBM		
ACQ264	December	23		2013	Catch.com	Software
SA			Siri	Apple		
ACQ260	January	4		2014	SnappyLabs	Photography so
SA			Camera	Apple		
ACQ259	January	7		2014	Parature	Customer servi
SA	100000000			Microsoft		
ACQ25	June	16		2017	SensoMotor	Eye tracking h
ER			ARKit	Apple		
ACQ243	February	21		2014	Burstly	Software testi
SA			TestFlight, App Store	Apple		
ACQ198	August	1		2014	Inception	Software
AN				Microsoft		
ACQ187	August	26		2014	Zync Rende	Cloud-based vi
SA			Google Cloud Platform	Google		
ACQ172	November	19		2014	RelativeWa	Mobile softwar
SA			Android	Google		
ACQ155	February	12		2015	N-trig	Styli and pen
SR	200000000			Microsoft		
ACQ144	April	13		2015	Phytel	Health managem
SA				IBM		
ACQ140	April	16		2015	Skillman &	Virtual realit
SA			Tilt Brush	Google		
ACQ136	May	4		2015	Timeful	Mobile softwar
SA			Google Inbox, Google	Google		
ACQ125	July	21		2015	Pixate	Mobile softwar
SA			Android	Google		

ACQ121	August	6	Google	2015	Merge Heal	Healthcare ima
SA	1000000000		IBM			
ACQ115	September	11	Microsoft	2015	Double Lab	Mobile lock sc
USA						
ACQ103	November	3	IBM	2015	Gravitant,	Cloud brokerag
SA						
ACQ101	November	6	IBM	2015	Cleversafe	Object-based s
SA	1309000000					

Problem 6: Açıklanan değerlere göre en fazla parçanan yatırımları fiyata göre değerlendiriniz.

In [6]:

```
select AcquisitionYear, Company, `Value (USD)`, ParentCompany,
case when `Value (USD)`>=250000000 then 'Yuksek'
when `Value (USD)`<250000000 and `Value (USD)`>=200000000 then 'Orta'
when `Value (USD)`<200000000 then 'Dusuk' end as Price from acquisitions where `Value (USD)` > 0
```

AcquisitionYear	Company	Value (USD)	ParentCompany	Price
2015	bebop	380000000	Google	Yuksek
1987	Forethough	14000000	Microsoft	Dusuk
1996	Vermeer Te	133000000	Microsoft	Dusuk
1996	Aspect Sof	14150000	Microsoft	Dusuk
1997	NetCarta	20000000	Microsoft	Orta
1997	NeXT	404000000	Apple	Yuksek
1997	WebTV Netw	425000000	Microsoft	Yuksek
1997	Net Contro	1400000	Yahoo	Dusuk
1997	Power Comp	110000000	Apple	Dusuk
1997	Four11	92000000	Yahoo	Yuksek
1997	Hotmail	500000000	Microsoft	Yuksek
1998	Firefly	40000000	Microsoft	Yuksek
1998	Viaweb	48600000	Yahoo	Yuksek
1998	Webcal	21000000	Yahoo	Orta
1998	Yoyodyne	29600000	Yahoo	Yuksek
1998	LinkExchan	265000000	Microsoft	Yuksek
1998	Hyperparal	8100000	Yahoo	Yuksek
1999	Xemplar Ed	4926000	Apple	Yuksek
1999	Broadcast.	5700000000	Yahoo	Yuksek
1999	Encompass	130000000	Yahoo	Dusuk
2016	TouchType,	250000000	Microsoft	Yuksek
1999	GeoCities	3600000000	Yahoo	Yuksek
1999	Online Any	80000000	Yahoo	Yuksek
1999	Intrinsa	58900000	Microsoft	Yuksek
1999	Sendit	125420000	Microsoft	Dusuk
1999	Raycer Gra	15000000	Apple	Dusuk
2000	Visio Corp	1375000000	Microsoft	Dusuk
2000	Travelscap	89750000	Microsoft	Yuksek
2000	Titus Comm	944800000	Microsoft	Yuksek
2000	VivaSmart	8900000	Yahoo	Yuksek
2000	eGroups	432000000	Yahoo	Yuksek
2000	MongoMusic	65000000	Microsoft	Yuksek
2000	Kimo	30000000	Yahoo	Yuksek
2001	Sold.com.a	30000000	Yahoo	Yuksek
2001	Vacationsp	70850000	Microsoft	Yuksek
2001	Great Plai	939884000	Microsoft	Yuksek
2001	NCompass L	36000000	Microsoft	Yuksek
2001	Mainspring	80000000	IBM	Yuksek
2001	Maximal In	20000000	Microsoft	Orta
2001	LAUNCH Med	12000000	Yahoo	Dusuk
2001	Informix C	1000000000	IBM	Dusuk
2001	Spruce Tec	14900000	Apple	Dusuk
2001	PowerSchoo	66100000	Apple	Yuksek
2002	CrossWorld	129000000	IBM	Dusuk
2002	Nothing Re	15000000	Apple	Dusuk
2002	Hotjobs.co	436000000	Yahoo	Yuksek
2002	Classic Cu	78000000	Microsoft	Yuksek
2002	Zayante	13000000	Apple	Dusuk
2002	Silicon Gr	20000000	Apple	Orta
2002	Prismo Gra	20000000	Apple	Orta
2002	Emagic	30000000	Apple	Yuksek
2002	Navision	1330000000	Microsoft	Dusuk
2002	Rare	375000000	Microsoft	Yuksek
2016	Truven Hea	2600000000	IBM	Yuksek

2002	PWC Consul	3500000000	IBM	Yukse
2002	Vicinity	95849000	Microsoft	Yukse
2002	Inktomi Co	235000000	Yahoo	Orta
2003	Rational S	2100000000	IBM	Orta
2003	Applied Se	102000000	Google	Dusuk
2003	PlaceWare	200000000	Microsoft	Orta
2003	Overture S	1630000000	Yahoo	Dusuk
2003	3DO Co-Hig	450000	Microsoft	Yukse
2004	3721 Inter	120000000	Yahoo	Dusuk
2004	Kelkoo	579000000	Yahoo	Yukse
2004	Daksh e-Se	170000000	IBM	Dusuk
2004	Oddpost	300000000	Yahoo	Yukse
2004	Musicmatch	160000000	Yahoo	Dusuk
2016	Blue Wolf	200000000	IBM	Orta
2005	Verdisoft	580000000	Yahoo	Yukse
2005	Corio	182000000	IBM	Dusuk
2005	Ludicorp	40000000	Yahoo	Yukse
2005	Ascential	1100000000	IBM	Dusuk
2005	MessageCas	7000000	Microsoft	Yukse
2005	Tsinghua-S	15000000	Microsoft	Dusuk
2005	Android In	50000000	Google	Yukse
2005	facebook.c	200000	Facebook	Dusuk
2005	5th Finger	3153000	Microsoft	Yukse
2005	del.icio.u	20000000	Yahoo	Orta
2006	dMarc Broa	102000000	Google	Dusuk
2006	MotionBrid	17858000	Microsoft	Dusuk
2006	Micromuse,	865000000	IBM	Yukse
2016	Magic Pony	150000000	Twitter	Dusuk
2006	MRO Softwa	740000000	IBM	Yukse
2006	YouTube	1650000000	Google	Dusuk
2006	FileNet Co	1600000000	IBM	Dusuk
2006	Internet S	1300000000	IBM	Dusuk
2006	Kenet Work	25000000	Yahoo	Orta
2006	Wretch	22000000	Yahoo	Orta
2006	Endoxon	28000000	Google	Yukse
2007	Adscape	23000000	Google	Orta
2007	DoubleClic	3100000000	Google	Yukse
2007	Marratech	15000000	Google	Dusuk
2007	Unicible	460000000	IBM	Yukse
2007	Right Medi	850000000	Yahoo	Yukse
2016	Turi	200000000	Apple	Orta
2007	FeedBurner	100000000	Google	Dusuk
2007	Savvis Inc	200000000	Microsoft	Orta
2007	GrandCentr	45000000	Google	Yukse
2007	Postini	625000000	Google	Yukse
2007	aQuantive	6333000000	Microsoft	Yukse
2007	DataMirror	161000000	IBM	Dusuk
2007	BlueLithiu	300000000	Yahoo	Yukse
2016	Orbitera	100000000	Google	Dusuk
2007	Zimbra	350000000	Yahoo	Yukse
2008	XIV	300000000	IBM	Yukse
2008	Cognos	5000000000	IBM	Yukse
2008	Maven Netw	160000000	Yahoo	Dusuk
2008	Komoku	5000000	Microsoft	Yukse
2008	Telelogic	845000000	IBM	Yukse
2008	Farecast	75000000	Microsoft	Yukse
2008	Danger	500000000	Microsoft	Yukse
2008	Diligent T	200000000	IBM	Orta
2016	Apigee	625000000	Google	Yukse
2008	P.A. Semi	278000000	Apple	Yukse
2008	Fast Searc	1191000000	Microsoft	Dusuk
2008	ConnectU	31000000	Facebook	Yukse
2008	ILOG	340000000	IBM	Yukse
2008	Omnisio	15000000	Google	Dusuk
2008	Greenfield	486000000	Microsoft	Yukse
2009	3DV System	35000000	Microsoft	Yukse
2009	Xoopit	20000000	Yahoo	Orta
2009	SPSS Inc.	1200000000	IBM	Dusuk
2009	On2	133000000	Google	Dusuk
2009	FriendFeed	47500000	Facebook	Yukse
2009	Maktoob.co	167000000	Yahoo	Dusuk
2009	Gizmo5	30000000	Google	Yukse
2009	AdMob	750000000	Google	Yukse
2009	Lala.com	17000000	Apple	Dusuk
2009	Mixer labs	5170000	Twitter	Yukse
2010	Quattro Wi	275000000	Apple	Yukse
2010	Aardvark	50000000	Google	Yukse

2010	DocVerse	25000000	Google	Orta
2010	Intrinsity	121000000	Apple	Dusuk
2010	BumpTop	30000000	Google	Yukse
2010	Cast Iron	190000000	IBM	Dusuk
2010	Gipsy Moth	12000000	Apple	Dusuk
2010	Friendster	40000000	Facebook	Yukse
2010	Global IP	68200000	Google	Yukse
2010	Sterling C	1400000000	IBM	Dusuk
2010	Invite Med	81000000	Google	Yukse
2010	Nextstop	2500000	Facebook	Orta
2010	Storwize	140000000	IBM	Dusuk
2010	Slide.com	228000000	Google	Orta
2010	Jambool	70000000	Google	Yukse
2010	Unica Corp	480000000	IBM	Yukse
2010	Like.com	100000000	Google	Dusuk
2010	Chai Labs	10000000	Facebook	Dusuk
2010	Quiksee	10000000	Google	Dusuk
2010	Polar Rose	29000000	Apple	Yukse
2010	Netezza	1700000000	IBM	Dusuk
2010	Dapper	55000000	Yahoo	Yukse
2010	Clarity Sy	350000000	IBM	Yukse
2010	FB.com dom	8500000	Facebook	Yukse
2011	Spreets	40000000	Yahoo	Yukse
2011	BeatThatQu	65000000	Google	Yukse
2011	Snaptu	70000000	Facebook	Yukse
2011	PushLife	25000000	Google	Orta
2011	ITA Softwa	676000000	Google	Yukse
2011	IntoNow	20000000	Yahoo	Orta
2011	Skype Tech	8500000000	Microsoft	Yukse
2011	TweetDeck	40000000	Twitter	Yukse
2011	Admeld	400000000	Google	Yukse
2011	C3 Technol	267000000	Apple	Yukse
2011	Motorola M	12500000000	Google	Dusuk
2011	Algorithmi	387000000	IBM	Yukse
2011	Zagat	151000000	Google	Dusuk
2011	DailyDeal	114000000	Google	Dusuk
2011	Interclick	270000000	Yahoo	Yukse
2016	LinkedIn	26200000000	Microsoft	Yukse
2011	Videosurf	100000000	Microsoft	Dusuk
2011	DemandTec	440000000	IBM	Yukse
2011	Anobit	390000000	Apple	Yukse
2012	Worklight	70000000	IBM	Yukse
2012	Chomp	50000000	Apple	Yukse
2012	Instagram	1000000000	Facebook	Dusuk
2012	Meebo	100000000	Google	Dusuk
2012	Face.com	100000000	Facebook	Dusuk
2012	Yammer	1200000000	Microsoft	Dusuk
2012	Sparrow	25000000	Google	Orta
2012	AuthenTec	356000000	Apple	Yukse
2012	Wildfire I	450000000	Google	Yukse
2012	Kenexa Cor	1400000000	IBM	Dusuk
2012	Viewdle	45000000	Google	Yukse
2012	Vine	30000000	Twitter	Yukse
2012	BufferBox	17000000	Google	Dusuk
2013	Snip.it	10000000	Yahoo	Dusuk
2013	Crashlytic	100000000	Twitter	Dusuk
2013	Channel In	125000000	Google	Dusuk
2013	Bluefin La	80000000	Twitter	Yukse
2013	WiFiSlam	20000000	Apple	Orta
2013	Summly	30000000	Yahoo	Yukse
2013	Wavii	30000000	Google	Yukse
2013	Parse	85000000	Facebook	Yukse
2013	Tumblr	1100000000	Yahoo	Dusuk
2013	SoftLayer	2000000000	IBM	Orta
2013	Waze	966000000	Google	Yukse
2013	Qwiki	50000000	Yahoo	Yukse
2013	Xobni	40000000	Yahoo	Yukse
2013	Lexity	35000000	Yahoo	Yukse
2013	Trusteer	1000000000	IBM	Dusuk
2013	Nokia mobi	7200000000	Microsoft	Yukse
2013	MoPub	350000000	Twitter	Yukse
2013	Flutter	40000000	Google	Yukse
2013	Cue	50000000	Apple	Yukse
2013	FlexyCore	23000000	Google	Orta
2013	Fiberlink	330000000	IBM	Yukse
2013	PrimeSense	345000000	Apple	Yukse
2017	Lattice Da	200000000	Apple	Orta

2013	Topsy	200000000	Apple	Orta
2013	Ptch	6500000	Yahoo	Yuksek
2017	Hexadite	100000000	Microsoft	Dusuk
2014	Parature	100000000	Microsoft	Dusuk
2014	Little Eye	15000000	Facebook	Dusuk
2014	Nest Labs	3200000000	Google	Yuksek
2014	Branch	15000000	Facebook	Dusuk
2014	DeepMind T	625000000	Google	Yuksek
2014	WhatsApp	19000000000	Facebook	Dusuk
2017	Cloudyn	50000000	Microsoft	Yuksek
2014	Oculus VR	2000000000	Facebook	Orta
2014	Ascenta	20000000	Facebook	Orta
2014	Gnip	134000000	Twitter	Dusuk
2014	TapCommerc	100000000	Twitter	Dusuk
2014	Namo Media	50000000	Twitter	Yuksek
2014	Skybox Ima	500000000	Google	Yuksek
2014	Dropcam	555000000	Google	Yuksek
2014	Swell	30000000	Apple	Yuksek
2014	Flurry	200000000	Yahoo	Orta
2014	Beats Elec	3000000000	Apple	Yuksek
2017	HTC (porti	1100000000	Google	Dusuk
2014	Bookpad	15000000	Yahoo	Dusuk
2017	Vrvana	30000000	Apple	Yuksek
2014	Mojang	2500000000	Microsoft	Yuksek
2014	BrightRoll	640000000	Yahoo	Yuksek
2015	Semetric	50000000	Apple	Yuksek
2015	Sunrise At	100000000	Microsoft	Dusuk
2015	N-trig	200000000	Microsoft	Orta
2015	Periscope	100000000	Twitter	Dusuk
2015	LinX	20000000	Apple	Orta
2015	TellApart	479000000	Twitter	Yuksek
2015	Pebbles	60000000	Facebook	Yuksek
2015	Adallom	320000000	Microsoft	Yuksek
2015	Polyvore	160000000	Yahoo	Dusuk
2015	Merge Heal	1000000000	IBM	Dusuk
2015	Cleversafe	1309000000	IBM	Dusuk
2018	Github	7500000000	Microsoft	Yuksek

Problem 7: Ana şirketlerin 2015 yılında yaptığı satın alma sayısını gösteriniz.

In [7]:

```
select distinct ParentCompany, Count(AcquisitionID) from acquisitions
where AcquisitionYear=2015 group by ParentCompany;
```

ParentCompany	Count (AcquisitionID)
-----	-----
Apple	10
Facebook	6
Google	15
IBM	13
Microsoft	19
Twitter	8
Yahoo	1

Problem 8: Ana şirketlerin 2000-2018 yılları arasında yıl başı satın alma ortalamalarını bulunuz.

In [8]:

```
select distinct ParentCompany, Count(AcquisitionID)/18 as Average_Acquisition from acquisitions
where AcquisitionYear>=2000 and AcquisitionYear<2018 group by ParentCompany;
```

ParentCompany	Average_Acquisition
-----	-----
Apple	4
Facebook	3
Google	11
IBM	9
Microsoft	8
Twitter	2
Yahoo	5

Problem 9: Big Data alanına en çok yatırım yapan şirketi bulunuz.

In [9]:

```
select distinct ParentCompany, Count(AcquisitionID), Business from acquisitions
where Business like "%big data%" group by ParentCompany;
```

ParentCompany	Count(AcquisitionID)	Business
IBM	3	Natural language processing, big data
Microsoft	1	Big Data Analytics
Twitter	1	Big Data visualization

Problem 10: Yıla göre satın alma miktarlarını bulup en çok satın alan şirketi satın alma sayısına göre büyükten küçüğe sıralayınız.

In [10]:

```
select distinct AcquisitionYear, ParentCompany, Count(AcquisitionID) from acquisitions
group by AcquisitionYear order by Count(AcquisitionID) desc
```

AcquisitionYear	ParentCompany	Count(AcquisitionID)
2014	Google	96
2013	Apple	94
2015	Microsoft	72
2010	Twitter	67
2011	Apple	59
2016	Google	54
2006	Google	53
2012	IBM	52
2007	Microsoft	50
2005	Google	45
2008	Twitter	39
2017	Google	34
2004	Microsoft	27
2009	Twitter	25
2002	Yahoo	23
2003	IBM	20
1999	Apple	19
2000	Apple	16
2001	Apple	16
1997	Microsoft	12
1998	Yahoo	11
1996	Microsoft	8
2018	Microsoft	7
1995	Microsoft	5
1988	Apple	4
1994	Microsoft	4
1987	Microsoft	1
1989	Apple	1
1991	Microsoft	1
1992	Microsoft	1

Problem 11: 2015 yılında 7 veya daha fazla satın alma yapan şirketleri gösteriniz.

In [11]:

```
select distinct ParentCompany, Count(AcquisitionID) as Acquisition_Number
from acquisitions where AcquisitionYear=2015 group by ParentCompany having Acquisition_Number>=7
```

ParentCompany	Acquisition_Number
Apple	10
Google	15
IBM	13
Microsoft	19
Twitter	8

Problem 12: Ana şirketlerin 2015 ve 2016 yıllarında satın almalara harcadığı toplam para miktarını bulunuz.

In [12]:

```
select distinct ParentCompany, SUM(`VALUE (USD)`) as Total_Spending
from acquisitions where (AcquisitionYear=2016 or AcquisitionYear=2015) and `VALUE (USD)`>0
group by ParentCompany
```

ParentCompany	Total_Spending
Apple	270000000
Facebook	60000000
Google	1105000000
IBM	5109000000
Microsoft	27070000000
Twitter	729000000
Yahoo	160000000

Problem 13: Countries of the World datasetini import ediniz.

In [13]:

```
.mode csv
.import 'countries of the world.csv' countries
.mode columns
.headers on
update countries set Region=RTrim(Region)
```

Region sütununda bazı kayıtlar başında ve sonunda boşluklar olacak şekilde eklendiği için bazı WHERE sorguları çalışmıyordu. O nedenle Region columnundaki boşlukları RTrim() fonksiyonunu kullanarak temizledim.

Problem 14: countries tablosundan Batı Avrupa bölgesinde bulunan ilk 10 ülkeyi gösteriniz.

In [14]:

```
select * from countries where Region="WESTERN EUROPE" limit 10
```

Country	Region	Population	Area (sq. mi.)	Pop. Density (per sq. mi.)	Coastline (coas
t/area ratio)	Net migration	Infant mortality (per 1000 births)	GDP (\$ per capita)	Literacy (%)	
Phones (per 1000)	Arable (%)	Crops (%)	Other (%)	Climate	Birthrate
Deathrate	Agricult	Industry	Service		
Andorra	WESTERN EUROPE	71201	468	152,1	0,00
6,6	4,05			19000	497,2
2,22	0	97,78	3	8,71	6,25
Austria	WESTERN EUROPE	8192880	83870	97,7	0,00
2	4,66			30000	452,2
16,91	0,86	82,23	3	8,74	9,76
					18
					304
					67
Belgium	WESTERN EUROPE	10379067	30528	340,0	0,22
1,23	4,68			29100	462,6
23,28	0,4	76,32	3	10,38	10,27
					0,01
					0,24
					74
Denmark	WESTERN EUROPE	5450661	43094	126,5	16,97
2,48	4,56			31100	614,6
54,02	0,19	45,79	3	11,13	10,36
					18
					246
					73
Faroe Isla	WESTERN EUROPE	47246	1399	33,8	79,84
1,41	6,24			22000	503,8
2,14	0	97,86		14,05	8,7
					0,27
					0,11
					0,
Finland	WESTERN EUROPE	5231372	338145	15,5	0,37
0,95	3,57			27400	405,3

7,19	0,03	92,78	3	10,45	9,86	28	295	67
France	WESTERN EUROPE	60876136	547030	111,3			0,63	
0,66	4,26			27600		99,0	586,4	
33,53	2,07	64,4	4	11,99	9,14	22	214	76
Germany	WESTERN EUROPE	82422299	357021	230,9			0,67	
2,18	4,16			27600		99,0	667,9	
33,85	0,59	65,56	3	8,25	10,62	9	296	69
Gibraltar	WESTERN EUROPE	27928	7	3989,7			171,43	
0	5,13			17500			877,7	
0	0	100		10,74	9,31			
Greece	WESTERN EUROPE	10688058	131940	81,0			10,37	
2,35	5,53			20000		97,5	589,7	
21,1	8,78	70,12	3	9,68	10,24	54	213	73

Problem 15: acquisitions ve countries tablolarını join işlemi ile birleştirerek ilk 20 kaydı gösteriniz.

In [15]:

```
select distinct table1.*, table2.* from acquisitions table1 join countries table2 limit 20
```

AcquisitionID	AcquisitionMonth	AcquisitionMonthDate	AcquisitionYear	Company	Business	
Country	Value (USD)	Derived products	ParentCompany	Country	Region	
opulation	Area (sq. mi.)	Pop. Density (per sq. mi.)	Coastline (coast/area ratio)	Net migration		
Infant mortality (per 1000 births)	GDP (\$ per capita)	Literacy (%)	Phones (per 1000)	Arable (%)		
) Crops (%)	Other (%)	Climate	Birthrate	Deathrate	Agriculture	Industry
						Service
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Afghanistan	ASIA (EX. NEAR EAST)	3
1056997	647500	48,0	0,00		23,06	
163,07		700	36,0	3,2	12,13	
,22	87,65	1	46,6	20,34	0,38	
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Albania	EASTERN EUROPE	3
81655	28748	124,6	1,26		-4,93	
21,52		4500	86,5	71,2	21,09	
,42	74,49	3	15,11	5,22	232	
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Algeria	NORTHERN AFRICA	3
930091	2381740	13,8	0,04		-0,39	
6000	70,0	78,1	3,22	0,25	96,53	1
17,14	4,61	101	0,6	298		
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	American Sam	OCEANIA	5
794	199	290,4	58,29		-20,71	
7		8000	97,0	259,5	10	1
75	2	22,46	3,27			
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Andorra	WESTERN EUROPE	7
201	468	152,1	0,00		6,6	
5		19000	100,0	497,2	2,22	0
97,78	3	8,71	6,25			
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Angola	SUB-SAHARAN AFRICA	
12127071	1246700	9,7	0,13		0	
91,19		1900	42,0	7,8	2,41	
24	97,35	45,11	24,2	96	658	246
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Anguilla	LATIN AMER. & CARIB	
13477	102	132,1	59,80		10,76	
1,03		8600	95,0	460,0	0	
100	2	14,17	5,34	0,04	0,78	
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Antigua & Ba	LATIN AMER. & CARIB	6
9108	443	156,0	34,54		-6,15	
,46		11000	89,0	549,9	18,18	
5	77,27	2	16,02	5,27	20	0,22
					742	

ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Argentina	LATIN AMER. & CARIB	
39921833	2766890	14,4	0,18		0,61	
15,18		11200	97,1	220,4	12,31	
,48	87,21	3	16,73	7,55	95	358
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Armenia	C.W. OF IND. STATES	
2976372	29800	99,9	0,00		-6,47	
23,28		3500	98,6	195,7	17,55	
,3	80,15	4	12,07	8,23	239	343
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Aruba	LATIN AMER. & CARIB	7
891	193	372,5	35,49		0	
9		28000	97,0	516,1	10,53	C
89,47	2	11,03	6,68	4	333	663
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Australia	OCEANIA	2
264082	7686850	2,6	0,34		3,98	
4,69		29000	100,0	565,5	6,55	
,04	93,41	1	12,14	7,51	38	262
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Austria	WESTERN EUROPE	8
92880	83870	97,7	0,00		2	
6		30000	98,0	452,2	16,91	C
82,23	3	8,74	9,76	18	304	678
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Azerbaijan	C.W. OF IND. STATES	7
961619	86600	91,9	0,00		-4,9	
,74		3400	97,0	137,1	19,63	
1	77,66	1	20,74	9,75	141	457
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Bahamas, The	LATIN AMER. & CARIB	3
03770	13940	21,8	25,41		-2,2	
,21		16700	95,6	460,6	0,8	
98,8	2	17,57	9,05	0,03	0,07	0,9
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Bahrain	NEAR EAST	6
8585	665	1050,5	24,21		1,05	
17,27		16900	89,1	281,3	2,82	
,63	91,55	1	17,8	4,14	5	387
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Bangladesh	ASIA (EX. NEAR EAST)	1
47365352	144000	1023,4	0,40		-0,71	
2,6		1900	43,1	7,3	62,11	
07	34,82	2	29,8	8,27	199	198
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Barbados	LATIN AMER. & CARIB	
279912	431	649,5	22,51		-0,31	
2,5		15700	97,4	481,9	37,21	
33	60,46	2	12,71	8,67	0,06	0,16
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Belarus	C.W. OF IND. STATES	
10293011	207600	49,6	0,00		2,54	
13,37		6100	99,6	319,1	29,55	
,6	69,85	4	11,16	14,02	93	316
ACQ99	November	11	2015	bebop	Cloud software	
SA	380000000	Google Cloud Platform	Google	Belgium	WESTERN EUROPE	1
379067	30528	340,0	0,22		1,23	
8		29100	98,0	462,6	23,28	C
76,32	3	10,38	10,27	0,01	0,24	749

Yararlandığım kaynaklar; https://www.tutorialspoint.com/sqlite/sqlite_using_joins.htm,

https://www.techonthenet.com/sqlite/comparison_operators.php,

<https://stackoverflow.com/questions/41358767/remove-whitespace-from-all-data-in-column-sqlite>