



CAPSTONE PROJECT

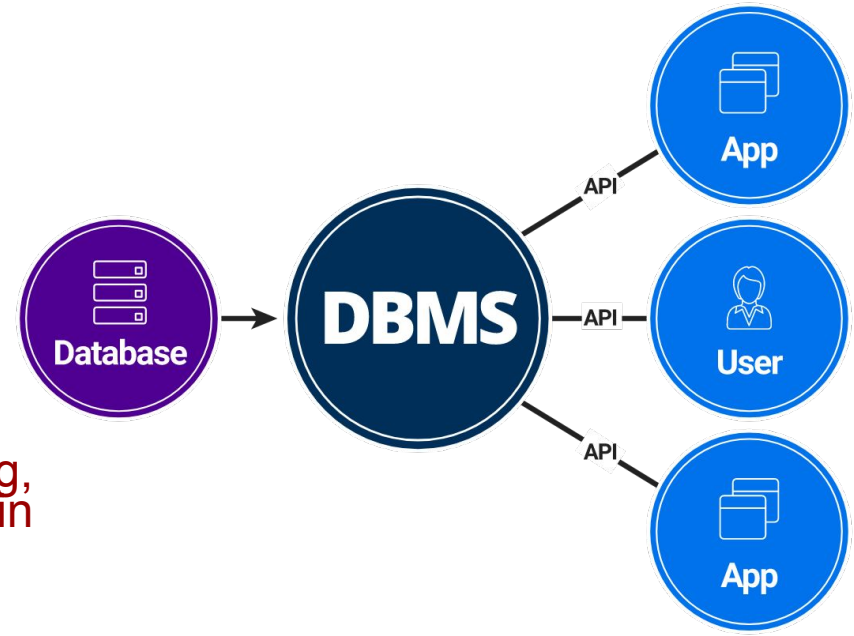


Database Management MySQL

____By Paul Abhishek

What is SQL ?

- Structured Query Language
- It is a Computer Language for storing, manipulating and retrieving data stored in relational database.
- SQL is the standard language for Relational Database System. All relational database management systems like “MySQL, Ms Access, Sybase, Oracle, Informix, postgres, and SQL Server” use SQL as a Standard database Language



SQL Commands

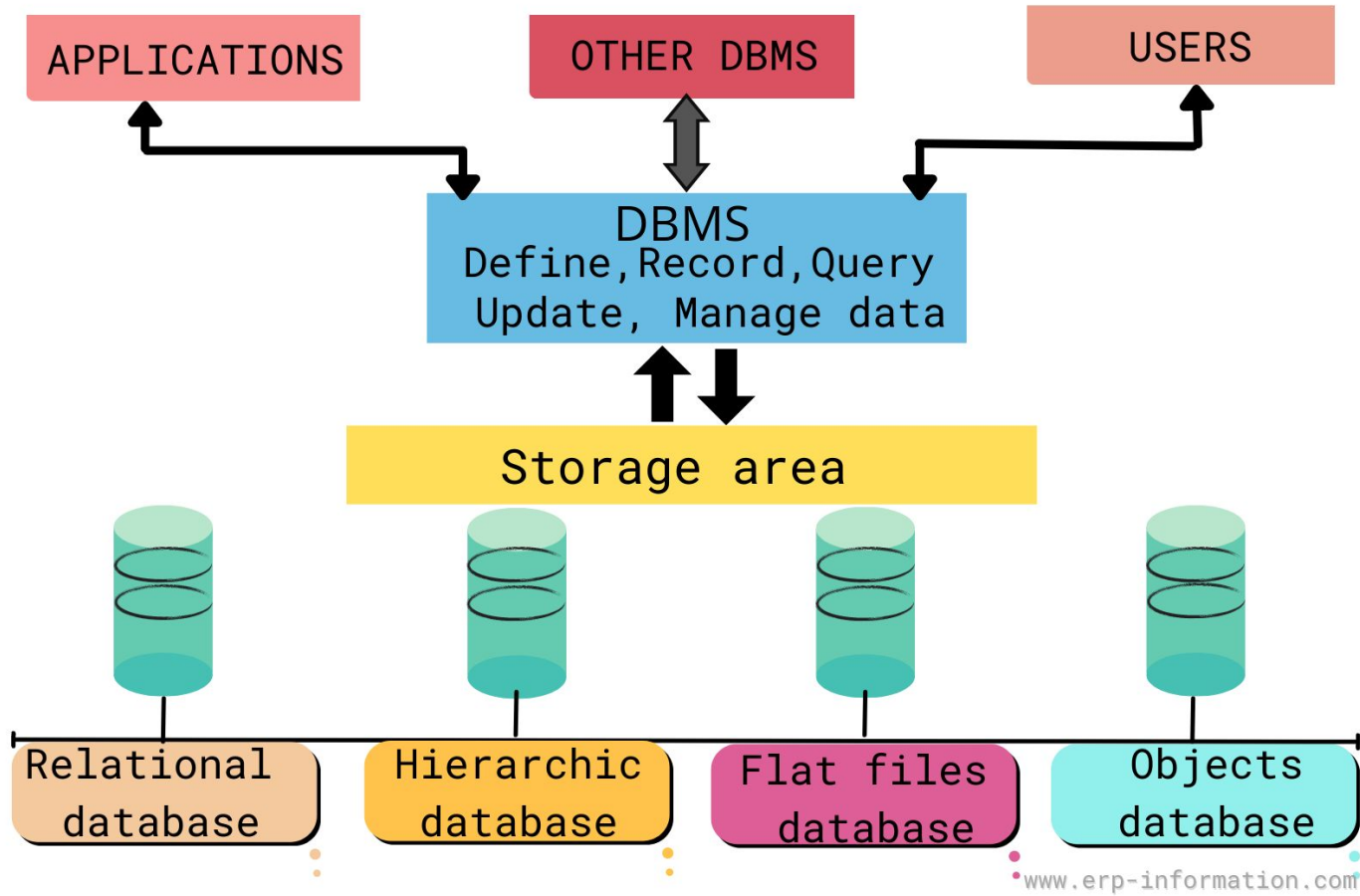
SQL commands are **the instructions used to communicate with a database to perform tasks, functions, and queries with data**. SQL commands can be used to search the database and to do other functions like creating tables, adding data to tables, modifying data, and dropping tables.

Type of SQL Commands

- DDL (Data Definition Language) commands
- DML (Data Manipulation Language) commands
- DCL (Data Control Language) commands



DATABASE MANAGEMENT SYSTEM



Background :

The standard definition of E-commerce is **a commercial transaction which is happened over the internet**. Online stores like Amazon, Flipkart, Shopify, Myntra, Ebay, Quikr, Olx are examples of E-commerce websites.

Objective :

In an e-commerce application, the main purpose of a database is **to store information for retrieving the product details, customer information, track transactions, and further, maintain the inventory**.

Path:

Detailed examination of the elements of the data in the tabular form is done through **SQL**.



Product Details

ProductId	Product Name	Product Description	Product Price	Quantity Available
112	Fastrack Casual Analog White Dial Men's Watch	Watch Movement Type: Quartz, Watch Display Type: Analog	1200	150
123	Samsung QLED TV	55 - inches,Dolby Audio, Android Features	86000	100
324	Kadence Slowhand Premium Jumbo Semi Acoustic Guitar	a finely crafted guitar to give complete tonal control. Designed in premium tonal woods.	11500	350
342	Canon EOS 3000D DSLR Camera	Self-Timer,Type C and Mini HDMI,9 Auto Focus Points,35x Optical Zoom,Effective Pixels: 18 MP	30000	340
343	SONY PlayStation 5 console	Games Included:Astro's Playroom ,Bluetooth Available	50000	200
423	Lenovo IdeaPad Gaming 3	Ryzen 7, 8 GB Ram, 512 GB SSD, Windows 11 Home,4 GB Graphics,NVIDIA GeForce RTX 3050	74000	90

ProductId	Product Name	Product Description	Product Price	Quantity Available
493	Nike Mens_Sport Performance_Backpack	Product Dimensions : 48 x 36 x 15 cm; 300 Grams	4000	370
494	JBL Wireless Earbuds	Active Noise Cancellation (Upto 40dB),40Hrs Playtime Legendary Sound 4Mics for Clear Calls	4500	270
532	REDMI 9 Activ	Metallic Purple,4 GB RAM, 64 GB Storage,Expandable Upto 512 GB,5000 mAh Lithium Polymer Battery	9000	400
534	boAt Xtend Smartwatch	Alexa Built-in, 1.69" HD Display, Multiple Watch Faces, Stress Monitor, Heart & SpO2 Monitoring	2500	175
543	Boldfit Basketball	Size 7 Professional Basket Ball for Indoor-Outdoor Training	800	320
634	Samsonite Hi-Fi Polypropylene Spinner	Shock absorbing suspension wheels to reduce surface impact & noise,Product Dimensions : 46 x 26 x 68 cm; 3 Kilograms	12220	500
685	sunglasses	Full Rim Hexagonal Branded Latest and Stylish Sunglasses Polarized and 100% UV Protected	1100	770

ProductId	Product Name	Product Description	Product Price	Quantity Available
847	Prestige Royale 3 Burner Gas Stove	Manual Ignition,Material : Glass	7000	75
909	MI Power Bank Hypersonic	20000mAh 50W Lithium Polymer Supports Laptop Charging 50W Mobile Charging	3600	100
934	Atomic Habits: The life-changing million copy bestseller	A supremely practical and useful book. James Clear distils the most fundamental information about habit formation	500	300

Customer Details

Customer Id	Customer Name	Customer Contact Number	Customer email Id	Customer Address	Customer City	Customer State
126	Fatima	9742303458	fatima909@gmail.com	#4-3-3 Crossing, Nazirabad, Kaiserbagh	Lucknow	Uttar Pradesh
214	Raj	8927368373	raj5843@gmail.com	# 9-6-2 Residing Residence, Street No.4, Golconda x roads	Hyderabad	Telangana
354	Mike	9093029301	mike2334@gmail.com	# 7-8-6 Jolly residence, street no.12, hitech city	Hyderabad	Telangana
387	Ashok	9430529302	ashok4847@gmail.com	# 4-6-8 Vakeel Residence, Street No. 8, Gandhi Nagar	Mumbai	Maharashtra

Customer Id	Customer Name	Customer Contact Number	Customer email Id	Customer Address	Customer City	Customer State
458	Ram	9403485345	ram343@gmail.com	272, 63-a, Y M Road, A.r.street Corner, Mandvi	Mumbai	Maharashtra
498	John	9504637295	johnny34@gmail.com	Street No:1, Gscb Complex, Opp Radhava Gas Agency, Ellora Park	Vadodara	Gujarat
584	Gohan	8742641001	gohan475@gmail.com	# 5-7-3 F.No : 800 Giraffe scrapers, Street No.6, Giraffe street	Banglore	karnataka
664	Isha	9365783282	isha485@gmail.com	V-19, New Market Yashwant Plac, Chanakyapuri	Delhi	Delhi
684	Yami	9466374620	yamius964@gmail.com	# 8-3-7 F.No : 507 Cycle chain apartments Street No: 4, Massiv road	Chennai	Tamil Nadu
764	Dan	9095429125	danodan0284@gmail.com	# 4-0-4 Sand Rsidence, Street No.7, Mechstreet	Delhi	Delhi

Customer Id	Customer Name	Customer Contact Number	Customer email Id	CustomerAddress	Customer City	Customer State
784	Prabhas	8529637411	Prabhas342@gmail.com	4th Floor, D C Chamber, Opp Ksb Pumps, Pimpri	Pune	Maharashtra
856	Ali	9349850285	ali1ahmadullah574@gmail.com	#3-8-3 Mohammad residence, Street No.2, Old city	Hyderabad	Telangana
876	Genos	9746384783	genos234@gmail.com	# 1-1-9, Udyog Vihar, Gurgaon	Delhi	Delhi
889	Sam	8959538659	sammy3746@gmail.com	W-82/4, Mayapuri Indl Area	Delhi	Delhi
904	Larry	9304723475	larry562@gmail.com	street No :7, Shanti Kunj,daxini Soci, Opp Goodluck Hall, Maninagar	Ahmedabad	Gujarat
953	Raghav	9847501278	raghav293@gmail.com	# 5-3-9 Flat No. 304 Jai Apartments, Street No.4, Secunderabad	Hyderabad	Telangana

Order Details

OrderId	ProductId	Quantity Ordered	CustomerId	purch_amt
11	493	7	584	28000
12	532	5	126	45000
21	847	5	498	35000
22	423	1	498	74000
23	112	3	856	3600
24	123	1	354	86000
33	543	10	498	8000
36	909	12	458	43200
37	543	2	214	1600
38	909	5	214	18000
39	494	3	214	13500
45	532	12	387	108000
46	112	4	876	3600
50	634	4	953	2000
51	324	7	664	80500

OrderId	ProductId	Quantity Ordered	CustomerId	purch_amt
61	342	2	664	60000
65	342	19	764	570000
67	423	10	953	740000
68	934	9	904	4500
69	493	3	784	12000
73	534	9	126	22500
76	685	6	584	6600
77	847	2	764	14000
78	934	5	764	2500
89	685	10	856	11000
90	112	2	354	2400
94	343	7	856	350000
95	634	8	684	97760
96	494	6	889	27000
99	534	1	784	2500

Updated Table

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324	Kadence Slowhand Premium Jumbo Semi Acoustic Guitar	a finely crafted guitar to give complete tonal control. Designed in premium tonal woods.	11500	343
342	Canon EOS 3000D DSLR Camera	Self-Timer,Type C and Mini HDMI,9 Auto Focus Points,35x Optical Zoom,Effective Pixels: 18 MP	30000	319
343	SONY PlayStation 5 console	Games Included:Astro's Playroom ,Bluetooth Available	50000	193
423	Lenovo IdeaPad Gaming 3	Ryzen 7, 8 GB Ram, 512 GB SSD, Windows 11 Home,4 GB Graphics,NVIDIA GeForce RTX 3050	74000	79

ProductId	ProductName	Product Description	ProductPrice	QuantityAvailable
493	Nike Mens_Sport Performance_Backpack	Product Dimensions : 48 x 36 x 15 cm; 300 Grams	4000	360
494	JBL Wireless Earbuds	Active Noise Cancellation (Upto 40dB),40Hrs Playtime Legendary Sound 4Mics for Clear Calls	4500	261
532	REDMI 9 Activ	Metallic Purple,4 GB RAM, 64 GB Storage,Expandable Upto 512 GB,5000 mAh Lithium Polymer Battery	9000	383
534	boAt Xtend Smartwatch	Alexa Built-in, 1.69" HD Display, Multiple Watch Faces, Stress Monitor, Heart & SpO2 Monitoring	2500	165
543	Boldfit Basketball	Size 7 Professional Basket Ball for Indoor-Outdoor Training	800	308
634	Samsonite Hi-Fi Polypropylene Spinner	Shock absorbing suspension wheels to reduce surface impact & noise,Product Dimensions : 46 x 26 x 68 cm; 3 Kilograms	12220	488
685	sunglasses	Full Rim Hexagonal Branded Latest and Stylish Sunglasses Polarized and 100% UV Protected	1100	754

ProductId	ProductName	Product Description	Product Price	Quantity Available
847	Prestige Royale 3 Burner Gas Stove	Manual Ignition,Material : Glass	7000	68
909	MI Power Bank Hypersonic	20000mAh 50W Lithium Polymer Supports Laptop Charging 50W Mobile Charging	3600	83
934	Atomic Habits: The life-changing million copy bestseller	A supremely practical and useful book. James Clear distils the most fundamental information about habit formation	500	286

Applications of DBMS

