

Docker File	HTTP	Compute Resources
FROM Create a new build stage from a base image.	GET Fetch the resource from web	Locks Making a code execute on only one thread. Avoids discrepancies from other threads changing vals.
RUN Execute build commands.	PUT Update the resource	
COPY Copy files and directories.	POST Create a resource to send to web	
COPY Specify default commands.	DELETE Delete resource from web	Thread-ing.lock() class threading.Lock The class implementing primitive lock objects. Once a thread has acquired a lock, subsequent attempts to acquire it block, until it is released; any thread may release it. Changed in version 3.13: Lock is now a class. In earlier Pythons, Lock was a factory function which returned an instance of the underlying private lock type.
MySQL	Memory Resources	
SELECT Extracts data from database	Caching Heiarchy CPU Registers, L1, L2, L3, RAM, SSD/HDD, Cloud	lock.a-cquire() Acquire a lock, blocking or non-bl-ocking. Locks code under lock to one thread.
UPDATE Updates data in a database	FIFO First In First Out, Evict Oldest Entry	lock.rele-ase() Release a lock. This can be called from any thread, not only the thread which has acquired the lock.
DELETE deletes data from a database	LRU Least Recently Used, Evict the entry that has been used longest ago. Move hits to front	GIL Global Interpreter Lock.
INSERT INTO inserts new data into a database	Transp-osing Column by Column, faster than row by row for long arrays.	
CREATE DATABASE Creates a new database	FS(File System) Caches data in the RAM. Uses memory and avoids storage reads.	
ALTER DATABASE Modifies a database	Stale Data Old files are deleted from the cache. SSD is large, so freshness more important than space there.	
CREATE TABLE Creates a new Table	PyArrow Cache Friendly table layout. Saves time when handling large datasets by turning each value into Pyarrow Types.	
*DROP TABLE Deletes a table		
CREATE INDEX Creates a search key		
DROP INDEX Deletes search key		
ORDER BY List by a certain column, DESC or ASC, etc.		
DISTINCT Filter only unique inputs		
WHERE Filter function (SELECT * FROM Customers WHERE Countr-y='Mexico')		

