

ON DEMAND (2)

SQL_CACHE 1

```
-- 1
SELECT * FROM products WHERE category_id = 5;

-- 1
SELECT SQL_CACHE * FROM products WHERE category_id = 5;
```

ON DEMAND 1

1

1

```
-- 1 'products' 1 1000 1 SELECT 1
UPDATE products SET price = 19.99 WHERE product_id = 42;
-- → 'products' 1 1000 1
```

1

1

query_cache_size 1

```
[mysqld]
query_cache_type = 2
query_cache_size = 64M
query_cache_limit = 2M
query_cache_min_res_unit = 2048
```

- **query_cache_size** 256 MB
- **query_cache_limit**
- **query_cache_min_res_unit**

1

Qcache_* 1

```
SHOW GLOBAL STATUS LIKE 'Qcache%';
```

#####

#####	#####
Qcache_hits	#####
Qcache_inserts	#####
Qcache_not_cached	#####
Qcache_lowmem_prunes	#####
Qcache_free_memory	#####
Qcache_total_blocks	#####
Qcache_free_blocks	##### = #####

#####

#####

```
##### = Qcache_hits / (Qcache_hits + Com_select) * 100
```

###

- > 40%#####
- 20-40%#####
- < 20%#####

#####

```
##### = Qcache_lowmem_prunes / Qcache_inserts * 100
```

```
##### 100 * (my_cache_size - #####)
```

#####

```
##### 100 #####
```

MySQL 8.0 Oracle

MariaDB

Galera

Galera Galera

1. A SELECT
2. B Galera UPDATE
3. A ——
4. A SELECT

Galera `wsrep_causal_reads = ON`

MaxScale

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```
[query-cache]
type = filter
module = cache
storage = storage_inmemory
ttl = 10s
max_size = 256Mi
```

MaxScale Galera MaxScale

- 80% SELECT
-
- 150
- Web
- Galera

