**SQL**

**ORDER BY**

* SELECT \* FROM ccc\_product ORDER BY product\_id DESC
* SELECT \* FROM ccc\_product ORDER BY product\_id ASC

**LIMIT**

* SELECT \* FROM ccc\_product ORDER BY product\_id DESC LIMIT 20
* SELECT \* FROM ccc\_product ORDER BY product\_id ASC LIMIT 10
* SELECT \* FROM ccc\_product LIMIT 10

**GROUP BY**

* SELECT COUNT(product\_id), category\_name FROM ccc\_product GROUP BY category\_name
* SELECT COUNT(product\_name), product\_type FROM ccc\_product GROUP BY product\_type
* SELECT COUNT(product\_name), product\_type FROM ccc\_product GROUP BY product\_type ORDER BY product\_type DESC
* SELECT SUM(total\_cost) as sum\_of\_category, category\_name FROM ccc\_product GROUP BY category\_name

**WHERE**

* SELECT \* FROM ccc\_product WHERE product\_id = 40
* SELECT \* FROM ccc\_product WHERE category\_name="Office" AND price>= 6000
* SELECT \* FROM ccc\_product WHERE price>=10000 AND (created\_at BETWEEN "2024-01-01" AND "2024-01-31")

**JOIN**

**Inner join**

* SELECT p.product\_name, c.name FROM ccc\_product AS p INNER JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id
* SELECT \* FROM ccc\_product AS p INNER JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id
* SELECT \* FROM ccc\_product AS p INNER JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id WHERE c.name="Office"

**Left join**

* SELECT \* FROM ccc\_product AS p LEFT JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id

**Right join**

* SELECT \* FROM ccc\_product AS p RIGHT JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id

**Full Outer join**

* SELECT \* FROM ccc\_product AS p LEFT JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id UNION SELECT \* FROM ccc\_product AS p RIGHT JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id

**UPDATE**

* UPDATE ccc\_product SET price=4000 WHERE product\_id = 40
* UPDATE ccc\_product AS p INNER JOIN ccc\_category AS c ON p.cat\_id = c.cat\_id SET p.product\_type="Bundle" WHERE c.cat\_id=2

**INSERT**

* INSERT INTO `ccc\_product` (`product\_name`,`sku`, ,`product\_type`, `category\_name`, `manufacturer\_cost`, `shipping\_cost`,`total\_cost`,`price`,`status`,`created\_at`,`updated\_at`) VALUES ('Table','JHDU8782','bundle', 'Dining & Kitchen', '10000','1000','11000','12000', 'Disbaled','2024-01-15','2024-02-04')

**INSERT ON DUPLICATE**

* INSERT INTO `ccc\_product` (`product\_id`,`product\_name`,`sku`,`product\_type`,`category\_name`,`manufacturer\_cost`,`shipping\_cost`,`total\_cost`,`price`,`status`,`created\_at`,`updated\_at`) VALUES (37,'Table','JHDU8782','simple','Dining & Kitchen','10000','1000','11000','12000','Enabled','2024-02-04','2024-02-04') ON DUPLICATE KEY UPDATE product\_name = VALUES(product\_name), sku = VALUES(sku)