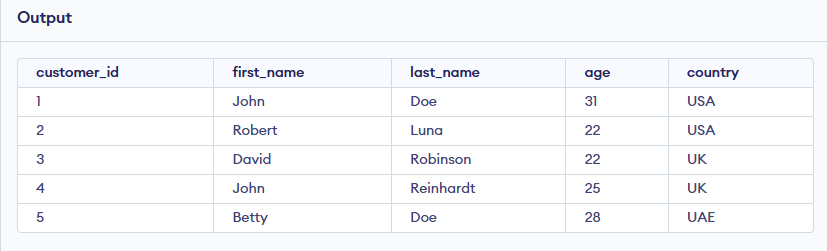
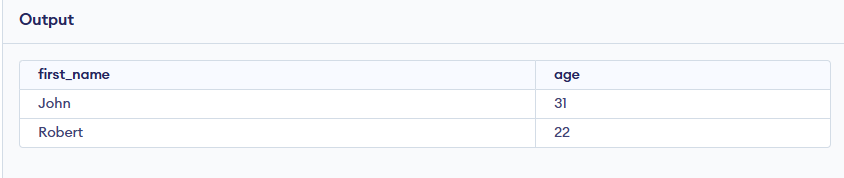
* Use SELECT, WHERE, ORDER BY, GROUP BY

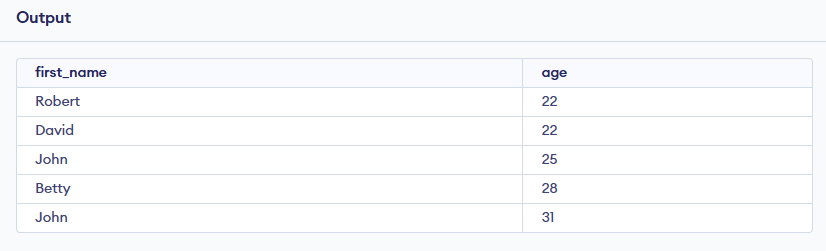
SELECT \* FROM Customers;



* SELECT first\_name ,age FROM Customers where country="USA" ;

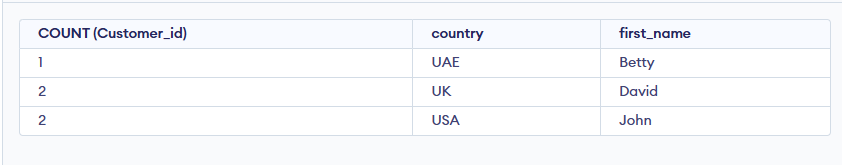


* SELECT first\_name, age FROM Customers order by age ASC ;



* SELECT COUNT (Customer\_id), Country, first\_name

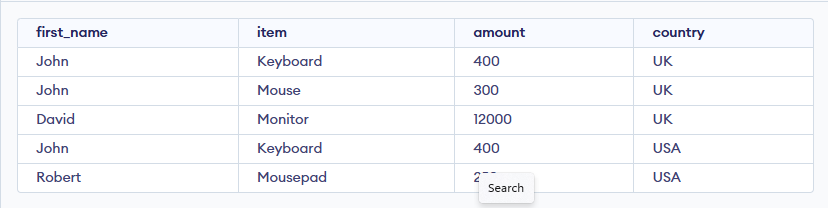
FROM Customers GROUP BY Country;



* Use JOINS (INNER, LEFT, RIGHT)

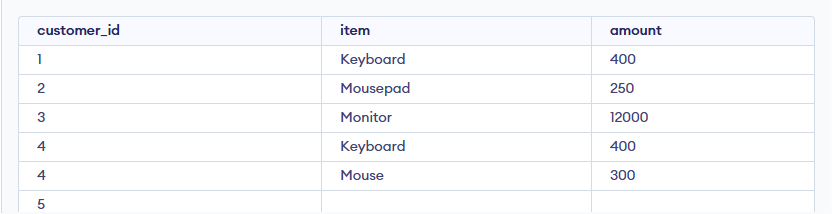
SELECT first\_name, item, amount, country FROM Customers

INNER JOIN Orders ON Customers.customer\_id = Orders.customer\_id;



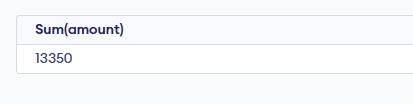
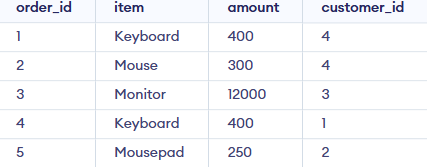
* SELECT Customers.customer\_id, Orders.item, Orders.amount

FROM Customers LEFT JOIN Order ON Customers.customer\_id = Orders.customer\_id;

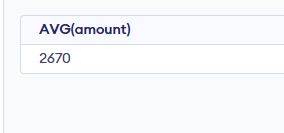


* Use aggregate functions (SUM, AVG)

SELECT Sum(amount) FROM Orders;



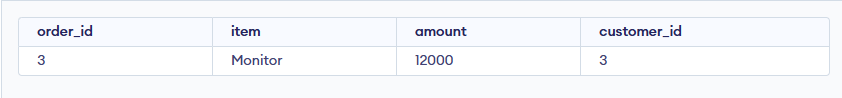
* SELECT AVG(amount) FROM Orders;



* Write subqueries

SELECT \* FROM Orders

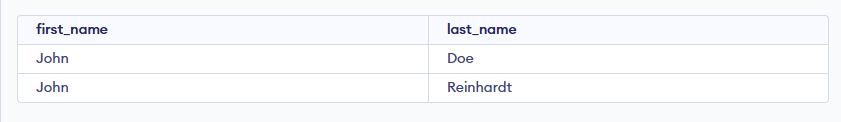
WHERE amount = (SELECT Max(amount) from Orders);



* Optimize queries with indexes

SELECT first\_name, last\_name FROM Customers

WHERE customer\_id IN (SELECT customer\_id from Orders WHERE item="Keyboard");



* Create views for analysis

CREATE view CUST\_VIEW as SELECT first\_name,last\_name

FROM Customers WHERE customer\_id=2;

SELECT \* FROM CUST\_VW;

