2:53 PM

With SQL we use a structured language to Create, Read, Update and Destroy Database.

"CRUD"

*** CREATE**

To create a table with SQL we use Create Table but

CREATE TABLE products (
id Int NOT NULL,
name STRING,
price MONEY,
PRIMARY KEY (id)

SQL CREATE TABLE Statement (w3schools.com)

UPDATE

▶ When your Table has been created we would need to insert our data to our data.

We would use

INSERT INTO products

VALUES (1, "pen", 1.20);

One is for the ID, pen is a string of the name and 1.20 is for the datatype money.

Also if you we need to know what column should have a data or not. We would use this SQL Structure INSERT INTO products (id , name) VALUES (1,"pen");

SQL INSERT INTO Statement (w3schools.com)

The output would be for the id and name but not price.

UPDATE products
SET price = 0.80

WHERE id=2

This will update id for price to be 0.80

SQL UPDATE Statement (w3schools.com)

We can also update our data with specification on what id and column you want to update.

ALTER TABLE products

ADD stock INT

We added stock as our new column

SQL ALTER TABLE Statement (w3schools.com)

We can also update by adding a new columns with data on them

* READ

SQL WHERE Clause (w3schools.com)

When you want to read data on your table use

SELETE * FROM 'products';

This would help you read your bale and give you all the data from the table

SELECTE name, price FROM 'products';

▶ Both if you want to read the columns to the user that you want you would use this SQL Structure. It would only select name the name and the price.

SETECT * FROM products WHERE id=1

Also If you only want a particular column to be displayed and read on your table. We would need to use

***** DELETE

SQL DELETE Statement (w3schools.com)

DELETE FROM products
WHERE id = 2
This will delete all the data from id =2.

* RELATIONSHIPS WITH SQL

We have our Customers, Products and Orders tables.

Customers	This has a table of people that are ordering
Products	This has a table of products that are being ordered
Order	This are the customers' orders

The Structure to create a relation between all the tables using the primary key and a foreign key.

CREATE TABLE	Orders	(
id INT	NOT	Null,
order_number	INT	,
customer_id	INT	,
product_id	INT	,
FOREIGN KEY	(customer_id)	REFERENCES customers (id),
FOREIGN KEY	(product_id)	REFERENCES product (id),
)		

The order table has

INSERT INTO orders Values (1,4362,2,1)

Id	Oder_number	Customer_id key	Product_id key
1	4362	2	1
2	3254	1	1

► We are joining order table with customers and products tables

- SETECT orders.order_number, customers.first_name, customers.last_name, customers.address FROM orders
 INNER JOIN customers ON orders.customer id = customers.id
- SETECT orders.order_number, products.first_name, products.last_name, products.address FROM orders
 INNER JOIN product ON orders.products_id = products.id