



RECITATION - 6

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SQL

WHAT IS SQL?

- STRUCTURED QUERY LANGUAGE
- QUERY AND EDIT DATABASE
- RDBMS
- SOME OPERATIONS: CREATE, SELECT, INSERT, UPDATE, DELETE, DROP

BASICS

- NOT CASE-SENSITIVE
- SEMI-COLON



TUPLE: RECORD

KNOW THESE WORDS



UPDATE: UPDATE-DB

INSERT INTO: INSERT NEW DATA INTO DE

TABLE: DATABASE(DB)

SELECT: EXTRACT FROM DB

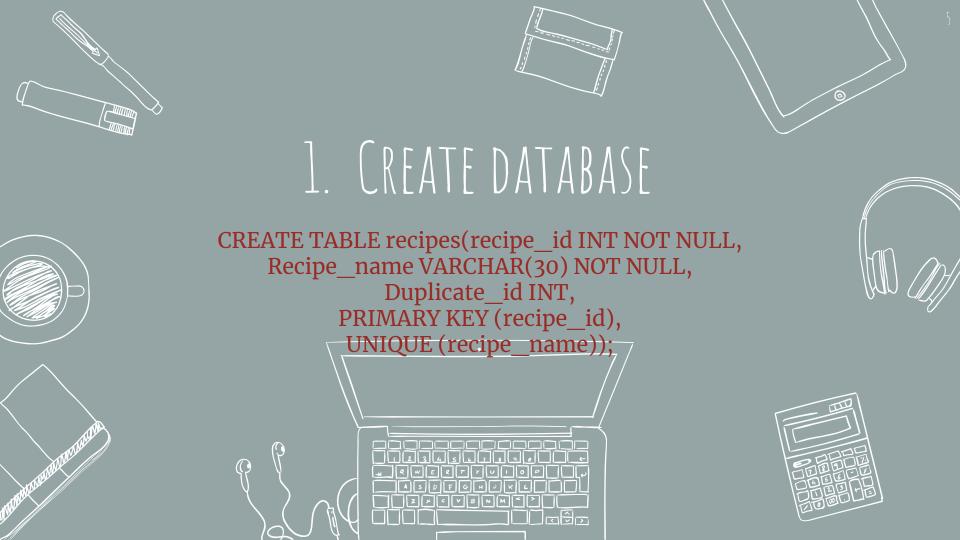
DELETE: DELETE RECORD FROM DB

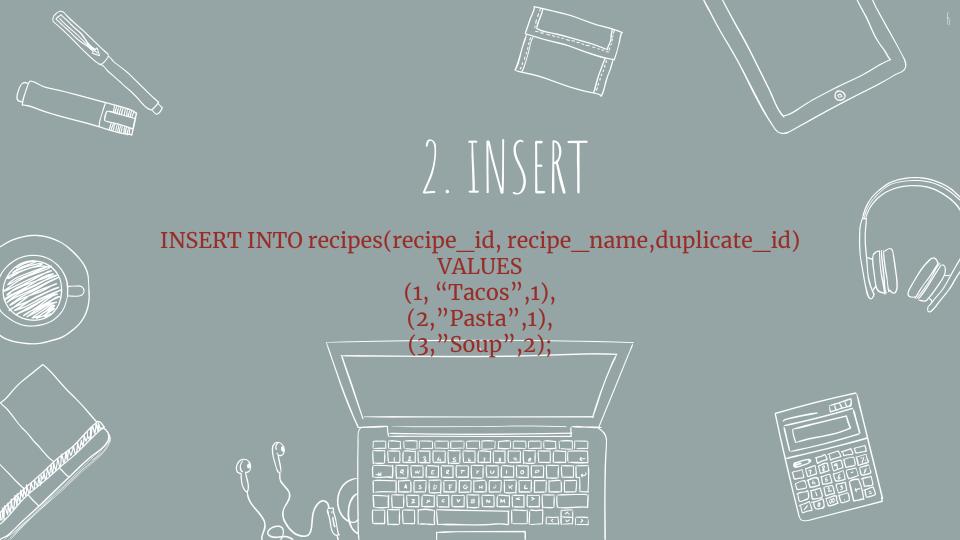
ASE ALTER TABLE: MODIFIES DB

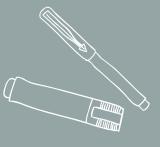
FIELDS: COLUMN CREATE TABLE: CREATE A NEW DATABASE

DROP TABLE: DELETES A TABLE









3. QUERY D'ATABASE

SELECT * from recipes;

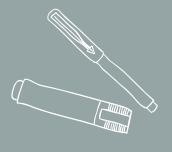
SELECT * from recipes where recipe_name = "Tacos";

SELECT recipe_id from recipes;

SELECT DISTINCT duplicate_id from recipes;

Others: ORDER BY, GROUP BY, AND, OR, NOT





4. UPDATE, ALTER, DELETE, DROR

UPDATE table__name SET field__1=value__1, field__2 = value__2 WHERE
condition;



ALTER TABLE table_name ADD column_name datatype;
ALTER TABLE table_name DROP COLUMN column_name;
ALTER TABLE table_name MODIFY column_name;









5.]()(1)()

Combines rows from 2 or more tables based on a related column between them.

OrderID	CustomerID	OrderDate	
10308	2	1996-09-18	
10309	37	1996-09-19	
10310	77	1996-09-20	

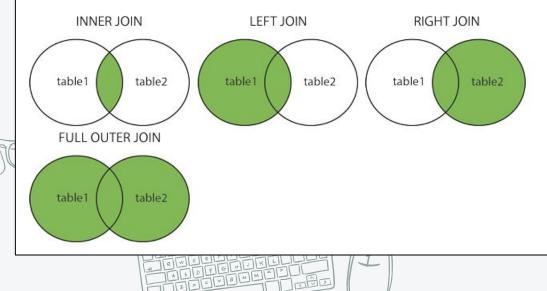
CustomerID	CustomerName	ContactName	Country
1	Alfreds Futterkiste	Maria Anders	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mexico

SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate FROM Orders INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID;

THE REAL PROPERTY OF THE PROPE



- (INNER) JOIN: Returns records that have matching values in both tables
- LEFT (OUTER) JOIN: Returns all records from the left table, and the matched records from the right table
- RIGHT (OUTER) JOIN: Returns all records from the right table, and the matched records from the left table
- FULL (OUTER) JOIN: Returns all records when there is a match in either left or right table







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combines result set of two or more select statements:

- Each SELECT statement within UNION must have the same number of columns
- The columns must also have similar data types
- The columns in each SELECT statement must also be in the same order

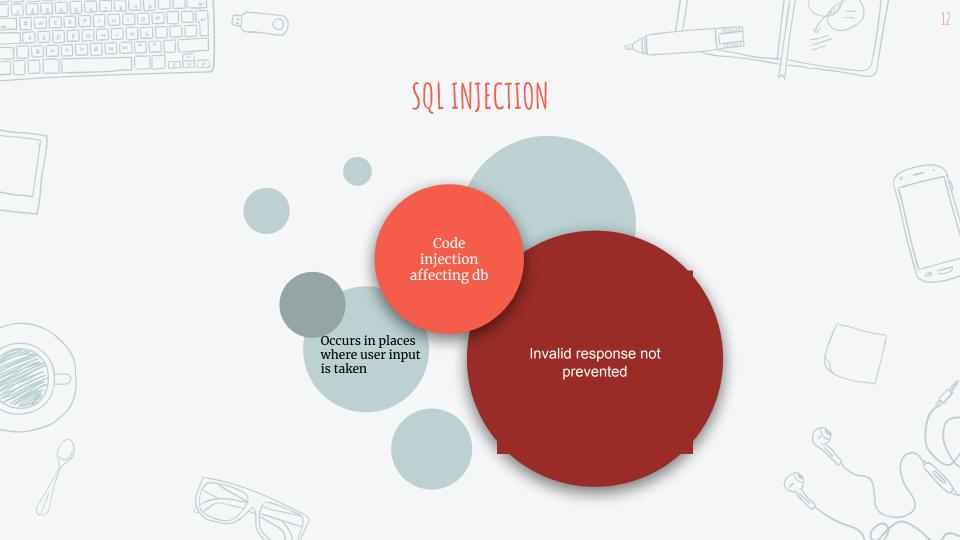
• Returns distinct results

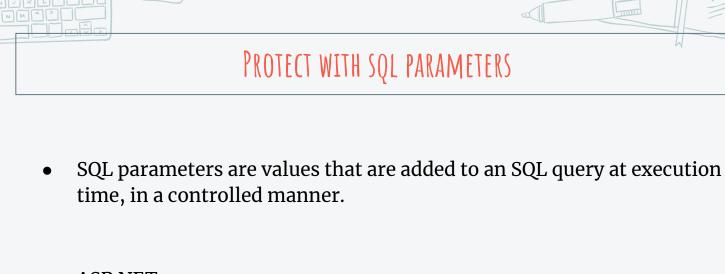
SELECT City FROM Customers UNION SELECT City FROM Suppliers ORDER BY City; Below is a selection from the "Customers" table:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taguería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico

And a selection from the "Suppliers" table:

SupplierID	SupplierName	ContactName	Address	City	PostalCode	Country
1	Exotic Liquid	Charlotte Cooper	49 Gilbert St.	London	EC1 4SD	UK
2	New Orleans Cajun Delights	Shelley Burke	P.O. Box 78934	New Orleans	70117	USA
3	Grandma Kelly's	Regina Murphy	707 Oxford	Ann	48104	USA





ASP.NET

txtUserId = getRequestString("UserId"); txtSQL = "SELECT * FROM Users WHERE UserId = @o"; db.Execute(txtSQL,txtUserId);

