		•	-	-	
DDL (Iala avery ] [Language]	DML (Jata Manipulation (Language )	JCL Data Conta Language	col [ Data Transation	DOL [ Jata Overy ]. [ Language ]	
	Manipulate data within Database  - Select - Insext - Up date - Delete (	Control access  data in databa  Croant  (Give users  Revoke  Revoke		Overy data from the	
describe table-name: -> Provide details of table.					
- Features	<b>DBMS</b>		RDBMS		
Agta Structure	Ilata can be store structure (e.g. file		Jata is stored in to		
Jata Model			Strickly follows the model Ctable & rela	relational Vionship)	
Inta Integrity	Integrity constro minimal.	ints are	Enforce data Inthough key, constr	egrity aints drules.	
Normalization.	No inheritent su data normalizati	ppost for	Suppost data norm to eliminate rec	alization Jundency.	
<ul> <li>ACID complience</li> <li>(Atomicity. Consisting)</li> <li>Isolalion, Durability)</li> </ul>	ACID property	ppost.	Fully supposts ACI	D properties management.	

Quory anguage	May not have a standard query language	Uses SQL (Structured Query Language) for querying & managing data.
Relationships	No or limited support for relationships bis data.	Supposts relationships b/w tables through foreign keys.
Examples	File system, XMIL-based DBMS, Hierachical DBMS.	Mysol, Oracle, Postgresol, SOL, SERVER, SOLLITE.
$\square = -\tilde{Y}_{p}$		

1> (oncat() → concat(SI, S2, ---)

→ combine two ar more string into one.

2> concat\_cos() -> concat\_cos(seperatos, S1, S2 --)

-> combine two or more string with seperator.

3.7 Substring() or substr() -> substring (string, start, length)

Select & substring ('Helloworld', 2,5) -> ellow

4. > Length () -> Returns the number of bytes in a string.

Select ('Hello'); → s

5.7 CHAR\_LENGTH() ON CHARACTE\_LENGTH() ->

Retrons the number of a character in a string, counting mult-byte characters as individual characters.

## Select CHAR\_LENGTH ('Hello') -> 5 6.7 TRIM () - TRIM ([Removal-String] Fox String) Remove leading and trailing space from a string. Select TRIM (' Hello '); -> Hello -Select TRIM (leading 'z' from 'zzzhelzozz') -> helzozz Select TRIM (trailing 'z' from 'zzhelzozz') - zzhelzo Select TRIM ('z' from 'zzhelzozz') -> Helzo 7.> LTRIM() -> LTRIM(string) Remove leading spaces from a string. Select LTRIM(' Hello'); -> Hello 8> RTRIM() -> RTRIM(string) Remove trailing space from a string. Select RTRIM(' Hello'); -> Hello 9.> UppER() -> Upper (string) -> converts a string to uppercase. 10.7 lower() -> LOWER(string) -> Convert a string to Lower case. 11.> REPLACE() -> Replace (string, old\_substring, new\_substring) Replace occurrences of a substring within a string with another

Select Replace ('Hello world', world', sol'); -> 'Hello sol

12.> INSTR() -> instr (string, substring)
12.> INSTR() -> instr(string, substring)  Returns the position of the first occurrence of a substring in a string:  9f the substring not found, it returns 0.  Select instr('Hello World', 'World'); -> 7.
3.> LOCATE() -> locate (substring, string)
of the first occurrence of a substring.
Select Locate ('world', 'Hello World'); -> 7.
4.7 LEFT() -> Left (string, N)
Retrons the first N characters from a string.
SELECT LEFT ('Hello Woold', 5) -> Hello
SELECT LEPT CHELLO WORLD, S.)  S.> RIGHT() -> Right (String, N)  Returns the last IV characters from the string.  Select right ('Hello World', 5) -> World  B.> REVERSE() -> reverse (string)  -> Returns reverse of a string  Select reverse ('Hello'); -> ollet  -> ASCII(String)  -> Returns the ASCII value of the first charater of a string.  SELECT & ASCII('PI'); -> 65
B) REVERSE () -> reverse (string)  -> Returns reverse of a string  Select reverse ('Hello'); -> olleH
7.> ASCII() -> ASCII( string) > Returns the ASCII value of the first charater of a shing.  SFLECT & ASCII('A'); -> 65.

18.> CHARC) -> (HAR (S1, S2, S3\_\_\_SW)

L) Returns the character of a given ASCII code.

SELECT CHAR (65, 66, 67); -> 'ABC'

19.> FORMATC) -> Format (number, decimal places)

L) Returns Format a number as a string, rounding it
to a specified number of a decimal places.

Select format (1234.67895, 2); -> 1234.68

20.> STRING\_AGG() -> string\_agg(expression, seperator)

Ly This function is used to concatenate values from

multiple rows into a string

SELECT STRING\_AGG (name, ',') as names from employees;

Ly 'John, Alice, Bob'