structural Query larguage

Introduction to soci- - in soci we didn't use

- * structured query language(squ) is a database quent language used for storing & managing data (2MBOST 2MBO EXMORE LONGITUSES NI
- * SOL was the first commercial language Introduced
- for extadis relational model of database * Today almost all ROBMS [MYSOL) oracle, Infomix Sybase, mx-axis] use the sqr as the standard database query language. SQL is used to perform all types of data operations in ROBMS
- * In simple want query is a wisting question
- * A query is tormulated for a relation (00) table to retore some useful information from the table Applications of col:
- * SPL 12 one of the most widely used query language Over the databases
 - 1) Allows ausers to acress data in the relational database management
 - e) Allows users to describe the data
 - 3) Allows users to define the data in a database Es manaculate the data

- using 292 modules, libraries & pre compilier
- 5) Allows uses to create & drop databases &
- 6) -allows users to create view, stored procusol.

 functions in a database
- Allows users to set permissions on tables prouses

-: 102 to youtell-

- * In 1940 Mockers at Or Edger. F. Teed codd
 of 1801 (International Bussiness Mussions Corpo
 ration) is known as the father of Relational
 database. He described a Relational model
 too databases query
- * In 1974-stouctured person language appeared
- # In 1978-IBM worded to develop codds Ideas & released a product named system/R.
- * In 1986 IBM developed the trest prototype of Relational database & standardised by (ANSI)
 - -American National standard institute the first Relational database was released by Relational software which lotter came to be

known as oracle

-; 102 (in spromma) * sol commands one Instructions, coded into sol statements, which are used to communicate with the database to perform specific tous works -functione & query's with data * SOL commands can be used not only for searching the database but also to perform various other -functions * Example you can create a table, add to table, modify the adjusting the data; drop the database are table set permissions for users * SOL commands are frouped into 5 mayors categories depending on their functionality * Douta definition language (DDL) manpulate * Data manuclate language (DMIL) * Data Control language (DCL) * Iranscation control language (TCL) * Data guerry language (DOL) Commands DCL TCL DOL DD4 (DML Create Inself (Groant Commit select After Uplate Revolu Roll back Drop Delete Lave pant-Rename @ python-world-in truncate

Data Definition language (DDL)

- * Data definition language (DDL) is a language that allows the used to define the data ? Their relationships to other types of data
- * Data Definition language statements work with,

 the stoucture of the database table

 Valuous data types used in defining coloums

 in a database table

 Integrity & value constrations

 viewing, moditing & Romoving a table stoucture
- * The DDL commands are create, Alter, Doop, Rename & trungate
- + All DDL commands are Autocommitted that means
 It caves all the changes perminently in the database
 DDL commands
- The Data Definition language (DDL) Commands

 are * (PEATE It is used to create a New take

 are a new database
- * ALTER H is used to alter are change the stoucture of the database table
- * DROP It is used to delete a table, Index are views from the database
- # RENAME It is used to Rename an object.
 trom the database
- * TRUNCATE H is used to delete the records

 are data from the table, but it's structure

remains as it as.

CREATE COMMAND:-

Create 12 a DOL and 191 command used to create a database one a table in a Relational BataBase Management system (RDMS)

CREATE A DATABASE;-

To create a database in RDBMs, then we are using the create command

Syntax: CREATE database databasename; Eq: CREATE database testos;

CREATE A TABLE

* Create command can also be used to create tables

* Now when we create a table, we have to specify

the details of the columns of the table too

* We can specify the names and the datatypes of

uarrows columns in the command itself.

Column 3 datatype, Styre Fort of son- single state

Column 3 datatype, Styre Fort of son- single state

State

State

State

State

State

Syntaxi: (REATE table table table name los) (tablenami

We will Express

Thus on F. Diff of son- single state

State

State

COLUMNN datatype,
PRIMARY KEY((Dlumn)

nationinas and attor stars sourced translate agains at tex ?

Eg 17 CREATE table student (five will use bracket ton atter name also 65) down told int, time also it will supports name Vaichai (10), i age int CREATE table constants and the first of the to int not nully NAME vouchou (20) not noil, I we will write Helds small 6) AGE INT not null, Big letters but ADDRESS chair (OS), inought out I one man PRIMARY KEY (LD) . (not not a didn't a rape didnit anapt duplicate The combo of not null & unique * ALTER Command + ALTER command is used for Altering -table stauture such as 1. To Add a column to Existing table e. To Remove any Existing column 3. To change data type of any column or to 1th 212e 4. To drop a column toom the table. apython-woold-in

```
Add a New column +
 using ALTER command we can add a column to
 any Existing table.
 Syntax: ALTER table tablename
          add (column-name dutatype);
 Eg: ALTER table student
      add (address vachal (00));
-Add multiple New columns;
   Using attencommand we can add multiple new
Columns to any Existing table
 Syntax: ALTER table tablename
        add (column, datatype,
                columno datatype,
                 columns datatype,
Eg: ALTER table student
       add (-tother-name voichail@0),
            mother-name varchar(00),
            oob date
  -Add column with default value;
  Alter command can add a new column to an
  Existing table with a detault value too The
  default value 12 used when no value is inserted
```

in the column

```
syntax: ALTER table tablename
        add ( column 1 datatype default same-value
 Egit ALTER table student
       add ( dob data detault 01-7an-99");
  Modify an Existing column: -.
  ALTER Command can also be used to modify
 the datatype of any Existing column
 Syntax: ALTER table tablename
        modity (column - name datatype);
  Eg + ALTER -table student
       modify (address vaichai (200)).
Kename a columnit
using ALTER command you can bename an
Existing column
 syntax + ALTER table tablename
      rename of old-column-name to
                     new-column - name:
Eq. ALTER table student
         rename address to location;
* Drop a column;-
 Alter command can also be used propos
 Remove columns
 Lyntax :-
       ALTER table tablename
       Deob (colown - vome);
```

Eg: ALTER table student

* prop Command +

Drop Command Computely removes a table trom the database This command will also destroy the table structure & data stored in it symbol. Drop table tablename;

Eg: Drop table student;

Rename Command:
Rename Command is used to set a new torrany
Existing table.

Syntax: - RENAME table old-trable-name to new-table-name;

Eqt RENAME table student to student-info;

TRUNCATE command:

TRUNCATE command <u>Removes</u> all the records trom a table but this command will not destroy the table structure

syntax: TRUNCATE table tablename

Eq; truncate table student; orld-in

Data manuculation language (DML):

- * DML commands alse used for manculating the data stored in the table and not that table it self
- * DML commands are not auto committed it means changes are not perminentant to database, they can be volved back

DML commands :-

- * INSERT It is used to incest data into used a table
- # UPDATE It is used to update Existing data with in a table
- * DELETE It is used to delete neconds from a
- * SELECT: It is used to shows the Records of the specified table

Example 1: let's take a student table consisting of the following Rewords

	student to	10/1
Sid	s Name	-Age
101	Alex	18
100	Adam	19
03	-Albhi	20

```
Insut command:
   The tricet query command sor provides a way
 to add new rows of information (or) data
  inside a specific database of the ROBINS
 insert can be executed using to esceptans
 Syntax :-
  INSERT into tablename
  valuer (datal, datas, datas, ....);
  Eg: 193241 : pa
 values (101 / ARanis, 20). (@python-world-in)
      Values (101, (Rani), 20);
 INCERT values into only specified coloums:
* We can use the insert command values for only
  some specific column of a row
* We can specify the column names along with the
  values will be incerted
Eg: INSERT into Student (SNO, SName, age)
     values ( 101, 'Rani', 90);
 MISERT MULL VALUES TO A COLUMN !-
 Ext INSERT into student (sno, sname)
     values (101, Rani);
```

Makes (100, latex), null);

```
insert multiple rouse at a time:
```

Ex: INSERT into student values (& SNO, (& Sname), Rage);

Enter sno: 101.

Enter sname: Alex

Enter age : 20

1<102

UPDATE

It is used update any record of data in a

table

Syntax: UPDAte tablename set

Column_name = namevalue where conditions

EN: UPPATE student set age = 80 where sid = 102;

Update multiple colums.

we can also update values of multiple colums Using a single update statement.

EK: UPDATE tablename set

Iname = (Rani), age = 30 where sid = 103;

Incerementing integer values in uppare:

fg: UPDATE student set age = age +1;

```
DELELE COWWEND!
   It is used to delete that a toom a table
 syntax? DELETE from table-name;
> DELETE All records in a table:
  EXT DELETE & from student
 The above command will delete all the records
 -trom the table student
> DELETE a particular record from a table
   In our student table it you want to delete
  a single record we can use the where clause
  to provide a condition in our delete statement
Ex! DELETE from student where sid=101;
                (00)
    DELETE from student where I name = Abhi;
9 son Data Types:
   Data types defines whate types of data a column
 can contoun
  * character [length)] (d) char [lungth)]
  * Vauchae (lungth
                      [@ python-world-10]
  * Bootean
  * By Small int
  * Integer (vor) int
 * Decimal[P[S])] (081 Dec[[P[S])]
 * Numeric [[P[,a])]
 * Real
 * float (p)
```

- * Donple becariou
- * Date
- * Time
- * Time_stamp
- * CLOB[(ungth)] job; character large object [length chai large] [(length)]
- * BLOB [(ungth)] (o) Binary large object[(ungth)]
- * Character [crength] (00) Char [lungth]
 - * The character datatype accepts character strings, including unicode of a timed length
- * The length of the character strong should be Specified in the data type declaration
 - Eq. Character(n)

where n represents the the desired length of the character string

- * It no length is specified during the declaration, the default length is 1.
- * The minimum length of the character datatype 16 18 It can have a maximum length up to the table page size
- * Character strings that are larger than the page size of the table can be stored as a character large object (LLOB).

Note: Character 101 is not allowed & raised on Exception

for + Char (10) (character (10)

· Valid

lkace (au)

(Race cou!

(84862)

1 1998-10-95

Invalid

[@python_world_in]

58462 1998-10-05

* Vaichai (ungth);

- * The Vaichal daratype accepts character storng including unicode of a variable length up to the maximum ungth speaded in the data-type declaration
- * Eq: Vaichai (n);
- * It can accept any length of character stoing up ton Charactel in length

Note:

varchal (0) is not allowed & roused an Euception

* If you need to you store character strings that are larger longer than the current table page Site, the character large object (cros) datatype Should be used

```
Eg: Vaichai(10)
     (Race Cal
      (RACECAR)
      24865)
* It supports the storage of two values: TRUE or
⇒ Boolean:
  -false. No parameters are required when declaring
  a boolean data type
  Egt BOOLEAN
      TRUE
      TRUE
      TRUE
       FALLE
 ⇒ Small int:-
 * This datatype accepts numeric values winth an
   important scale of seco
* It you accign a numeric value with a procession
    a scale to a smallint data-type, the scale
    bartion from mithout reoringing
 fg! Small int
 -32768
     -30.3( sight of the decimal point
                         tuniated)
Integer or int:
  The integer data type accepts numeric values
   with a implied scale of zero
```

Ed: - 617483.918

1025.98 (right of the decimal point truncated)

Decimal [(2743)] (00) Dec[(2[2])]:-

The decimal datatype accepts numeric values for which you may define a precision & a scale in the data declaration

* DECIMAL data types can be declared in one of 3 different ways.

1. DECIMAL-precision defaults to 38, scale default

Q. DECIMAL(P) scale defaults to 0

3. DECIMAL (PIZ) - precision & scale are defined by the user

Ed + DECIMAL (1013)

Valued: - 1234567

12345664.123

1234567. 1234 (final digit is tourcated)

Numeric [(P[27)];-

* point base to eats the numbers data type in Exactly the same way as the DECIMPIL data type.

REAL:

* It accepts approximate numeric values up to

* No parameters are required when declaring

Fg; REAL 1.045

float(p):-

* This type accepts approximate numeric value for which you may define a precision up to a maximum of 64

It no precision is specified during the declaration the default precision is 64 Fg: FLOAT (8)

153,172648 153,172648

DOUBLE PRECISION : -

* The REAL data type accepts approximate numeric values jupto a precision of 64

* No parameters are required when declaring a Double PRECISION data type

* It you attempt to assign a value with a procuron greater than 64 an Error is

PATE :-

- * The DATE datatype accepts data value No parameters are required when declaring a DATE datatype
- * Date values should be specified in the form:
- * values assigned to the DATE data type should be Enclosed in single quotes, preceded by the case insensitive beywood DATE

Eq: DATE ... 1999 - 01 - 01'

DATE: 12000 - 2-21

DATE /1999-13-1"

TIME :-

- * The TIME data accepts time values No parameters are required when declaring a TIME data type.
- * Time values should be specified in the form: 1411: mini: 121

- * The minutes & seconds values must be two digits thour values should be between 0 & 231 minutes values should be between bo & 291 61.999999.
 - * values assigned to the TIME Data type should be Enclosed in single quotes, proceded by the case intensitive beyword TIME

-; 9MAT23MIT

- * This data type accepts timestamp values which are a combination of DATE value & a Time star value
- He No parameters are required when declaring a TIMESTAMP data types
- * TIME STAMP values should be specified in the toom: YYYY: MM-DD HH: MM: 22
- postions of the timestamp
 - Eg: TIMESTAMP 11 1999-04-04 04:30:00"
 - CLOB[(Lingth)]/character large object[(length)]

 char large object[(length)];_
- than those that are allowed in the character [[rength]] (08) VARCHAR (rength) data types.

Chlu/x/U -: repubs Where I is an unsigned integer that beboevent? the length, kinn, & correspond the knobytes, whoregobytes Los) Eligabytes respectively. * It kim (ae) A is sheated to aggine to withou the actual length of n 12 K= n* 1000 12 = N*1 A1812+C FO = 141 0431411 854 * The maximum size allowed too word data types is a engabytes * It a length is not specified, then a default length of one obyte is used Note: The CLOB data type supports unicode data BLOB [(rength)] / Binary large object [chingth]:-* This datatype accepts binary values; syntax: n[k|m/4] where n is an unsigned integer that represents the length kimits correspond the buokytes, knegabytestor) Engabytes respectively * It kinger is specified in addition to n then the actual ungth of n 121-K = V* 1054 W= U*110#81240 a= 14 1/0+3, 441/874 # The maximum size allowed for BLOB data type 12 2 gigabytes # It a rength is not specified then a default length

Note: BLOB data types cannot be used with squ

count

count

count

-Average IAU

min

min

min

Use of Aggregate functions

* from a burning perceptiative, different Organi nation levels have different information requirements top level managers are usually intersted in knowing whole figures & not necessary the individual details

* Aggregate tunctions allows us to usually produce suc mont also data thou our data base

En: Movieventale table

Retevence number	transaction_ data	return data	membership.	Movie=
11	90-06-9001	Note	1	
12	90-06-2021		7 4	٠.
	22-06-2021		3	2
14	21-06-2021	24-06-2021	9	9
15	23-06-2021	Muse	1	3

count (Hunction

* It returns the total number of values in specified field

* It works on both numeric & non-numeric datatypes

*-All Aggratic functions by defult exclude null value before working on the data

* (bunt (*) is a special implimentation of the count -function that returns the court of all the rooms in a specified table count (*) also consider nulls q duplicates

En:

relect (DUNT (MOVIE-1d)

-trom moviementals

Output :-

Count (movie-id)

DISTINCT KEYINDRD:-

and the second second second The Destinct requored that allows us to Nomit duplicates from our results select movie-id trom moviementals output: movie-id

```
Now Execute the came query with the dietinit
  bertassy
Ex:
  select Distinct movie-id from moviereals;
 Oup put .
       movie-id
     MINIL) function :
    It returns the smallest value in the specified
table tield
   Ent
  relect MIN (reference - number)
   FROM movierentals;
   Output: Mini (reference-number)
    MAX ()-function >
   It returns the largest value in the specified
   table field . It is the opposite of the MIN function
    Eu :
     relect max (reference-number)
    -from moviementals;
    0/p: MAX (reference-number)
```

```
COM ( ) function :
* It returns the cum of all the values expecified
   colum sum works on numeric tields only
* NUIT hadres are Excluded from the result returned
Eq:
   relect sum (reference-number)
 from movierentals;
 of : - row (reference - nomber)
                             [@python-world-in]
       65
  Avg() function:
* It returns the property the values in a spenfied
   coloum
* Just line the sum function it works only on
  numeric data types
syntax ?
      select AVG (reference number)
     FROM moviementals;
   Of t aver(reference-number)
>* Selection & projection operations;-
           Relational Algebra operations
                                   Extended perived
  Basic operations
                                             operations
                                           -> Join Oberaha
 unear operations Binary operations
                                           -> DIVISIO peration
   -> protect operation (11)
                             operation(U)
                                           -> Interection
   - Selection operation (5) - cross product
                                    operation(x)
                                                operation
   L> Rename operation (P)
                                                   (v)
                          -mnus/set difference(-)
```

```
* Selection operation (o):-
   election operation is used to retrive data to
  row (or) type
  Denoted by (+) (sigma)
  Syntax;
                    P(P)
         2 selection
                condition
   R= Relation (table
                             Relation: Emp
  Eg: Teld = 1 (Emp)
                              eld ename
output :- end ename
 selection condition can use compassisions using
 Eq (=, # 1 </ =) = 1 6=1 </ >
It allows comparisions blue two op attributes
 relection operations is a uneral operator
 connectivities are used AND (N), OR (V) & NOT(7)
 project operator (TT):-
   It selects certain columns from the table
  & discouds the other columns/ attalbute
  Lyntax:-
         Zattorbute lut>
```

iname, frame, calary (Employee);

Relation: Employee FIND EName Frame Salary Iname 152 3982 101000 182 9000 tavya soi lcavya 19 401000 Sig Felson Suran bil 3 1,00000 sai Sai vijay vijay U 0/p: Lname -frame salary ir2 10,000 3386 20,000 801 kauch 401000 griran D12 1100000 Sai urjay

Imposition of constrains / sqr constraints:
your sqr constrains are released to constraint the type of data that can go into a table to maintain the accuracy of integrety of the data inside the table.

sqr constraints can be divided into two types:

- 1. Column level constrains limits only column date
- a. Table constrains-limits whole table data
- 3. some of the most used constrains that an be applied to the table are:
 - · NOT MULL
 - · UNIQUE
 - · PRIMARY REY
 - . FOREIGN DEY
 - · CHECK
 - · DEFAULT

4. Constrains are used make store that the integraty of data is mainted in the data has NOT NULL CONSTRAINS:-It restricts a column from howing a null will once MOT NULL constraints is applied to a column you can't pass a null value to the column. It inforces a column to certain a beober volve Note: It can be define at a table level. emonedat eldat etalen :xatryz (column, datatype constraint, columna datatype constraint, tolumn 3 datatype constraint: Eq: (REATE table student (sid int NOTNULL. Iname Vaichai (20) NOT NULL, .. age int In the Example sid & sname tields of student table will not take null values UNIQUE constraints: * It Ensures that a field column will only have unique value * A unique constraint tield will not duplicate data

Moter This constraints can be applied at level of table level

Syntax: CREATE table tablename townstraint (column) dotatype constraint, columns datatype constraint, columns datatype constraint, table constraint Constraint constraint_name constraint_type

((columns));

Eg: CREATE table person column

Les int NOT MULLy constraint

Constraine Varchar (20) NOT MULLy

First name Varchar (10) Table Constraint

age int,

Constraint Uniperson Unique (10) (authoria));

3) PRIMARY KEY: constraint:

The primary lay constraint uniquely identifies Each record.

* primary key must contain unique value & connot contain will values

A table can have only one primary buy

A primary key can consist of single or multiple

Columns (fields)

Column level table level constraints:

* Column level constraints is declared at the time of creating a table but table level time of creating a table but table level constraints is attentable is created.

```
* Not Nucl constraint can not be created at
  table used.
* composite primary by must be declared of
  table level.
  syntax: for column level
       create table table name
      (column) datatype constraint,
       columna abtatype constraint,
        column 3 datatype constraint,
        columnal datatype constraint.
       1;
 syntax: for table level (@python-word-in)
       create table tablename
     (column a datatype)
      column a datatype,
      column Al datatype,
  constraint constraint name constraint type (
                  (columning columna, ....));
      CREATE table person
      LED INT NOTHUR,
       lastrame vaechas (20) NOT NULLY
      -first name Vouchal (20),
       age int,
  (GNSTR
 CONSTANT PK-PELLOU PRIMARY KEY ( ID WIT
                                    name));
```

Foreignkey Constrainti- foreign by occup null value is

+ A foreignkey is a bey used to link to two

* A forseign key is a tield or collection of fields in one table that refers to the primary bey in another table

The table containing the foreign key is called
the child table , and the table containing the
primary key is called the referenced (as)

parent table
person (parent table)

bercou to	last name	-first name	-Age
1	Demon	Vampire	30
0	tum	Tove	98
3	-Hauch	desh	90

godeis (child table)

orgen to	ordernumber	person id
4	77895	3
9	4468+	3
3	8 2426	9
Ψ	542651	1

```
Ex: parent table
     CREATE table person
    Personal int parmount bent
      lautrame Vauchau 190),
    firstname Varchaulis),
                          ( @ python-world-in)
    -flege int
     );
   Ext Child table
     CREATE table oders
     largered int berward part
     ordername int Nothull,
     personal int,
     CONSTRANT FK Oders FOREIGN KEY ( personid)
      RELEKENCE: bercoung (bercourd)
    check constraint:
  * It is used to limit the value range that can
     be placed in a column
 * If you define where constadion a single
    Column It allow only certain values for
        column
* It you define a check constraint on a
   table it can limit the values in certain
```

columns based on values in other columns

an the row

ext create table person (ID INT NOT NULL) lastrame Vaichar (20) NOTNULL, first name vaichau(15), age int creekt (HECK (age > = 18)); CHECK constraint on multiple columns: EXT CREATE touble person (TO INT NOT MAILY lastrame vaichai (NO) NOTIVUL, -first name vaichae (15), age int, [@python_world-in] city varchae (20), CONSTRAINT Chk-person CHECK(age>=18 AND CHY= "Hyderabad")); DEFAULT CONSTRAINT:-* It is used to provide a default value for a column * The default value will be added to all new rewords of those other value is specified Ext CREATE table person (to int not noth lastrame varchaelow) Nothully first name Nouthautis), age int, City voichou (00) DEFAULT LHYD)

The Default conctount can also be used to incest system values, by using functions, like get date GETDATE()

EX: CREATE table odels

Order-date date DEPAULT GETDATE());

set operations in soil

291 supports two set operation which can be performed on table data this are used to get meaningfull results toom data stored in the table, under different special conditions

* Let operations are

-> UNION

-> UNION ALL

(@python_world-in)

-> INTERSECT

-> WINDT

Union operation:

* Union is used to combine the results of two (3) more select statements

trom His viewit set

* In case of union, number of columns & data types must be same in the both tables, on which Union operation is being applied Ext first table

TD	Name
1	Abhi
0	Adam

10	Name
1	Adam
3	Rowi

second table

Union sor will be select * from first Union

SELECT # trom Second;

output !-

012	Name
1	-Abhi
9	-Adam
3	Pavi

(@) python-world-in)

UNION ALL: -

- * This operation is similar to union but it also 1 Deplicate shows the duplicate rows
- * Union AIL query will be Ext select * from first UNION ALL SELECT * from second;
 - 9p: 10 Name Abhi Adam Pour 80 Adam Ravi

* It is used to combine two select statements but it only returns the records which are Common from both select statements 1* In case of intercect the number of columns & data

type must be same

Interest query will be

Ex : SELECT * - from +cret

INTERSECT.

CELECT * from second;

output = so Name

2 Adam

-,2UMIM

* The MINUS operation combines results of two reject statements & return only those in the final recult, which belongs to the first set of the result

EX: SELECT * from first 2UNIM LELECT * trom Lecond;

Output: - ID Name -Abhi I'M MEMIC!-

Table (08) Relation

A Table is a fundamendal structure in bracle

It is a database object that contains rows of

data you can perform DML operations like insert

UPDATE and DELETE on table.

VIEW :-

- * A view is simply any select query that has been given a name and saved in the database for this reason, a view is cometimes called a named query (08) a stored query
 - * views are read only views doesnot allow you to modify data
- Here are useful when we have complex Join that questes at multiple places. In such cases use can give name to such complex questes that is use can create view cost Named questes that is use can create view cost Named questes.
- * Views are also useful when we want to hide certain columns from users which we cannot do using tables by creating a view, we can also achieves Lecurity.
- * view is a virtual table whose contents by
- * A view doesn't exist as a stored set of data valuer in a database.

* A table is pointminary storage too storage *

4 table is pointminary storage too storage of the storage of th

* A table is a collection of related data entire,

& it consists of some & columns

* Table 12 a physical representation of data & view 12 a bioklogical representation of data

Creating View statement :

* In squ , A view is a virtual table based on the result set of an equ statement.

* A view contains rows & columns just like a real table

The tields in a view one tields from 101 more realtables in the database

* we can add son tunctions, where withere & Join statements to a view

Create view syntax!

CREATE VIEW VIEWName AS

SELECT COlumn 1, column 2 - - -
FROM table-name

WHERE Conditions;

Note: - A view always shows upto_date data

Ex: - CREATE VIEW VI_wstomers As

SELECT Cus_name, contact_name

FROM customers

WHERE country = INDIA;

Stockholis * we are see the view efatement by using select Materiant

fx: crifet # from un-customers

* a wew that celects fuely product in the products table with a price higher than the therax buce

CREATE VIEW VI- PROducte Ac sever productione, poice FROM products WHERE pria > (select Aug (price) from products);

* SELECT * From VI- products -: Main & BNILLEGUE

A view can be updated with the create (OR) REPLACE VIEW command

Lyntax:

"CREATE OR REPLACE WIEW WEW - name As

setett columni, columna, . . . from table-name

WHERE Condition;

UIEM !

EX-CREATE DE REPLACE, VI-coctomers As select we-name, contact name, city FROM Customers WHERE COUNTRY = 'INDIA':

(@) pyrhon awold-11).

DROPING A WIEW

* A view is deleted with the DROP VIEW

Command

Syntax:

DROP VIEW

DROP VIEW

DROP VIEW

EX: DROP VIEW VIEW- name;

DROP View VI- Admicustomers;

Table Nem 1. A table is used to organia 1. views are tocated as unitual or logical table data in the form of rows iginam, to view or manip & columns & duplayed from -late pasts of the table. in a structure tormat. It It is a database abject makes the stored informat contains, dows & columns -lon more undestable to the same as realtable. the Human 2. Table is a physial entity 2. The view is a violed -that means data is actu Entity which mean doto - ally stored in the table. is not actually stored In the table 3. It is used to store the 3. It is used to Extract data obita form 4 It generates a four result 4. the view generates a clow result because It renders the informati to trom the table Even time we que 5. It is an independent olda 5. 24 depends on the take object therefore, we cannot Create a view without

using tabus

- 6. Table allows us to perform
- 7. Let is not an Easy task to replace the distribute distribute distribute distribute distribute storage
- 8. It occupies upace on the system

- 6. The view will unable du to pertorm ome operation
- Tot 12 an Easy task to replace the view & recreate it when Ever needs.
- 2. It does not occupied space on the system