39h Commands.

sight commands are the instructions of it is used to communicate with ab. It is also used to perform specific tasks, functions, and queries of data.

add data to tables, duop the tables, modify the table of set permissions to users.

Data Desinition language

Description language

Description language

The table like create.

a table, deleting a table, autering a table etc.

Here are some commands that comes under PEL.

- 1) CREATE
- 2) ALTER
- 3> EROP
- 4) TRUMCATE

1) CREATE

Create is used to create a new table in the db.

syntax: - CREATE TABLE Table Name (
column 1 datatype,

column 2 datatype,

column N datestype);

Employee ID int,

Employee Name varchar (255),

Emergency Contact Name varchar (255),

Phone Number int,

Address varchar (255)

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oper &

City varchar (255), Country varchar (255)); icate ALTER This command is used to delete, modify, add the constraints or columns in an existing table. The alter table statement, is used to add, delete, modify columns in an existing table. The ALTER TABLE Statement with AZZ | PROP COLUMN. You can use the ALTER TABLE statement with add ARR | DROP column command according to your need. If you wish to add a column, then you will use the ADD command, and if you wish to delete a column, then you'll use the EROP COLUMN command syntax: - Alter Table Table Name ATT Column Name Datatype; Alter Table Table Mame PROP COLUMN COLUMNHAME ", eg: - ARR Column Blood Guvrup; ALTER TABLE Emp APP Blood Gurup varchar (255); PROP Column BloodGusup; emp ALTER TABLE Employee-into PROP COLUMN Blood GUOUP; set sinesize command and 18 puedelined

Alter Table Emp APP Blood group varchar (20);

Assignment.

1) Add values into Blied guoup column in existing table, and City, MobNo.

Also insent data into 3 columns.

2) Zelete Blood gurup Column.

Alter Table Emp

Europ Column Blood gurup;

	Delete	Touncate	Duop.	
4	Delete comes under	Tuuncate, comes under	Ruop comes under	
	2ML	133	285	
2)	It is used to delete	Truncate removes all	Removes the table	
	(semones) one or	the suous from a	from the database	
	more rows. (record)	table.		
3>	Pelete is blower	Turcate is juster than		
	than Tourcate	delete		
43	It is possible to	We cannot would back	The dup is a	
	Rollback	once we teuncate	statement used to	
		(we can't restore the	dup an existing	
		records by using	table or db.	
		monpack 1		
			The dup table	
			a.	L
		Truncate table table	PROP TABLE Tabletons	4
		name;	FIRST INDIE 1000	
	-			

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Synt

eg:

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4) "

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Alter Table Statement with ALTER | MODIFY COLUMN This statement is used to change the downtype of an existing column in a table. Syntax: ALTER TABLE Table Name ALTER COLUMN ColumnHame Datatype; eg: Add a column 2000 of change the datatype of Date ALTER TABLE Emp APP DOB year; ALTER TABLE Emp thTER 200 date; DROP This statement is used to drop an existing table. When you Mabase use this statement, complete informath puesent in the table will be lost. syntax: - PROP TABLE Table Name; eg: - PROP TABLE Emp; TRUNCATE This command is used to delete the injorimatin present able Name; in the table but does not delete the table. So, once you use this command, your injoremath will be lost, but not the table:

undek

table

TRUNCATE TABLE Table Nome; syntax :-TRUNCATE TABLE;

D. Data Manipulation hanguage.

2ML commands are used to modify the database.

It is responsible for all form of changes in the db.

The command of EML is not auto-committed that means it can't permanently save all the changes in the db.
They can be rullback.

- 1) INSERT
- 2) UPTATE
- 8) DELETE
- 1) INSERT INTO

This statement is used to insert new records into the table.

Ayntax: INSERT INTO TalleHame (COLI, COLZ, COL3, -- COLH)

VALUES (Value), Value2, -- Valuen);

eg:- INSERT INTO Employee IP, Employee name, __)

VALUES (*06, ___);

2) UPPATE

This command is used to update or modify the records already present in table.

Syntax: UPPATE TableName

SET Column 1 = Value 1, Column 2 = Value 2, -
WHERE Condition;

eq:- UPPATE tmp

SET Empname = 'Aahana', City = 'Ahmedabad'

WHERE Empno = 1;

UPPATE top SET JOB = 'Manager' WHERE toppo = 7902;

This statement is used to delete the existing records (one or more nows) in a table.

syntax: - DELETE FROM Table Name WHERE Condition;

eq: - DELETE FROM Emp WHERE Emphame = 'Chris';

C. Pata Control Language.

Der commands are used to grant and take back authority from any database user. Pata control Language Statements are used to grant privileges on tables, views, sequences, synonyms, procedures to other users or roles.

Grant
Revoke

This used to give user access purvileges to a daterbase.

This command is used to provide access or privileges on the daterbase and its objects to the users.

You can quant users rarious privileges to tables.

These permissions can be any combination of SELECT, INSERT, UPDATE, PELETE, REFERENCES, ALTER, or ALL

V-p-			
	Prinileges of two types: :-		
	Bystem Puivileges		
2	Object Priniteges		
7	aufect rauninges		
	Object Psuniteges		
	Object privilèges means privilèges on objects such as		
	tables, views, synonyms, procedure. These are		
1	granted by owner of the object.		
	Object Puivileges auc:		
	ALTEO	I al a shall be distingtion of the state of the	
	ALTER	Change the table dejirition with the ALTER TABLE	
		Statement.	
	DELETE	Removes nows from the table with the DELETE	1>
		statement.	
		Note: - You must grant the SELECT privilege	
		on the table along with the PELETE privilege.	
		I want the service bounded	
	INDEX	Puonte on Endox and the se	
		Create an index on the table with the CREATE	2)
		INQEX statement.	
	INSERT	Add how nows to the table with the insent	
		INBERT Statement.	
			*1
	REFERENCERS	Create a constraint that wegers to the table.	3)
		You can not award in the table.	
		You can not quant this privilege to a viole.	
	SELECT	guerry the table with the SELECT statement.	
	UPPATE	Change data in the table with the UPDATE	
		statement.	
F			
		Note: - you must grant the SELECT privilege of on the table along with the UPPATE.	
Shot on rec	alme 3	of the land along with the UPPATE.	

eg: - GRANT CONNECT TO Scott; GRANT CREATE DEDDION TO SLOTE; CREATE DEDUIN - allows an account to connect to a database GRANT SELECT, INSERT, UPPATE, DELETE ON Smp To Scott; GRANT ALL ON Emp To Chris; 2) REVOKE use to vierope privileges already granted to other users. ABLE REVOKE ALL ON Emp FROM Chuis; 1) just example to menoke select, update, insent puivileges you have TE granted to chois ther give the jollowing statement. revoke select, update, insert on emp juom chiss. I to verope select statement on Emp quanted to public give the jullowing command. scevoke select on Emp from public; To veroke update prinileges on ename column and insert privilege on empro and ename columns give the julipioing revoke statement. nevoke update, insent on emp juom Anil;

Transaction Control Language. TCL commands can only use with DML commands Like INSERT, DELETE and UPDATE only

These operations are automatically committed in the database that's why they can not be used while eneating tables or dupping them.

- 1) COMMIT
- 2) ROLL BACK
- 3) SAYEPOINT

COMMIT

This command is used to save the teansaction into the database.

commit command is used to permanently save the transaction into the database.

When we use any DML command like INSERT, UPDATE the general the changes made by these commands are not permanent, until the current session is closed, the changes made by these commands can be ruelled back.

To avoid that we use the COMMIT command to mark the changes as permanent.

syntax: COMMIT;

ROLLBACK
This command is used to nestance the database to the last committed state.

This command restores the database to last committed state. It is also used with SANEPOINT command to jump to sovepoint in an ongoing transaction.

If we have used the UPPATE command to make some changes into the database, and wealise that those changes were not sugained, then we can use the ROLLBACK command to wallback those changes, if they were not committed using the committed command.

syntax: Rohnback To savepoint name;

3) SAVEPOINT

SAMEPOINT command is used to temposituity save a teansaction so that you can wellback to that point whenever required.

Following is sovepoint command's syntax.

Syntax: - savepoint some point name;

In short, using this command we can name the diff states of our data in any table and then wellback to that state using the ROLLBACK command whenever nequired.

Using Sonepoint and Rollback

following is table class

id	name
1.	Abhi
2	Adam
4	ALEK

```
Shot on realme.
              Lets use some son queries on the above table & see
              the results.
              INSERT INTO Class VALUES (5, 'Rahul');
              COMMIT;
  W
              UPPATE class SET name = "Abhijit'
                     WHERE id = 5;
                          SAVEPOINT +;
              INSERT INTO CLASS (IR, NAME) VALUES (6, 'CHRIS');
             SANEPOINT B;
             insent into class (id, name) values (7, 'Bravo');
             savepoint c;
             select * from class;
                  name
                      Abhi
                      Adam
                     Alga
                     Abhijit
                     Chris
                      Bravo
             Rouback To savepoint C;
             select * juon class;
             Delete juon class where id = 8;
   commit
            Rollback;
            delete from class where id = 8;
select * from class;
             commit
```

select & juan class
dup table class
upliback;

select * prom class.

392 Operatores

An operator is reserved word or character used to in an squ statements to perjorm operations such as comparison and anithmetic operations.

and to serve as conjuctions (and, for, not, and) for multiple conditions in a statement.

1) A withmetic Operators (+,-,*,1)

Precedence of operators - has been given precedence.

- if Mulipsication & Division take primity over addition & substraction.
- then the execution control is from left to right.
- iii) Braces | Parenthesis are used to jorce priorities, the executive which means whatever operator whithin bracket executed just and then operator outside.