PARTITION TABLE:

GENERALLY, PARTITIONS ARE CREATED ON VERY LARGE-SCALE DATABASE TABLES FOR DIVIDING INTO MULTIPLE SMALL PARTS AND EACH PART IS CALLED AS "PARTITION".

- BY SPLITTING A LARGE TABLE INTO SMALLER PARTS THEN DATA CAN ACCESS VERY FAST BECAUSE THERE IS LESS DATA TO SACN INSTEAD OF LARGE DATA OF A TABLE.

TYPES OF PARTITIONS:

- 1) RANGE PARTITION
- 2) LIST PARTITION
- 3) HASH PARTITION
- IF WE WANT TO ACCESS A PARTICULAR PARTITION THEN WE FOLLOW THE FOLLOWING,

SYNTAX:

SQL> SELECT * FROM <TN> PARTITION (<PARTITION NAME>);

1) RANGE PARTITION:

- IN THIS METHOD WE ARE CREATING PARTITIONS TABLE BASED ON A PARTICULAR RANGE VALUE.

SYNTAX:

CREATE TABLE <tn> (<co< th=""><th>OLUMN NAME1> <d< th=""><th>ATATYPES>[SIZE],</th></d<></th></co<></tn>	OLUMN NAME1> <d< th=""><th>ATATYPES>[SIZE],</th></d<>	ATATYPES>[SIZE],
)	PARTITION BY RAN	IGE (<key column<="" td=""></key>
NAME>) (PARTITION <pa< td=""><td>RTITION NAME1> \</td><td>VALUES LESS</td></pa<>	RTITION NAME1> \	VALUES LESS
THAN(VALUE), PARTITION	N < PARTITION NAM	IE2> VALUES LESS
THAN(VALUE),);

EX:

CREATE TABLE TEST1(EID INT, ENAME VARCHAR2(10), SAL NUMBER (10)) PARTITION BY RANGE(SAL) (PARTITION P1 VALUES LESS THAN (1000), PARTITION P2 VALUES LESS THAN (2000), PARTITION P3 VALUES LESS THAN (3000));

TESTING:				
SQL> INSER	RT INTO TEST1	VALUES(1,'SAI',2500);		
SQL> INSERT INTO TEST1 VALUES(2,'JONES',500);				
		·····;		
		·····;		
CALLING A	PARTICULAR PA	ARTITION:		
SQL> SELEC	T * FROM TEST	1 PARTITION(P1);		
	ENAME			
	JONES			
2) LIST PAR - IN TH ON LIST OF	HIS METHOD W	E ARE CREATING PARTITIONS BASE	ΞC	
SYNTAX:				
	BLE <tn> (<co)</co </tn>	LUMN NAME1> <datatype>[SIZE]</datatype>],	
<partition partition<="" td=""><td>N NAME1> VAL <partition n<="" td=""><td>COLUMN NAME>) (PARTITION UES (VALUE1, VALUE2,), IAME2> VALUES (VALUE1, VALUE2, OTHERS VALUES(DEFAULT));</td><td></td></partition></td></partition>	N NAME1> VAL <partition n<="" td=""><td>COLUMN NAME>) (PARTITION UES (VALUE1, VALUE2,), IAME2> VALUES (VALUE1, VALUE2, OTHERS VALUES(DEFAULT));</td><td></td></partition>	COLUMN NAME>) (PARTITION UES (VALUE1, VALUE2,), IAME2> VALUES (VALUE1, VALUE2, OTHERS VALUES(DEFAULT));		
EX:				
CREATE TAE	BLE TEST2(SNO	INT, CNAME VARCHAR2(10))		
	BY LIST(CNAM RACLE','MYSQL'	E) (PARTITION P1),		
PARTITION VALUES(DE	-	VA','PHP'), PARTITION OTHERS		

TESTING:			
SQL> INSERT	INTO TEST2 VALUES(1,'ORACLE');		
SQL> INSERT	INTO TEST2 VALUES(2,'C');		
CALLING A PARTICULAR PARTITION:			
SQL> SELECT * FROM TEST2 PARTITION(P1);			
SNO	CNAME		
1	ORACLE		
3) HASH PART	ITION:		
- IN THIS SYSTEM BY DE	METHOD PARTITIONS ARE CREATED BY THE FAULT.		
<u>SYNTAX:</u>			
	<tn> (<column name1=""> <datatype>[SIZE],</datatype></column></tn>		
) PARTITION BY HASH (<key column="" name="">) PARTITIONS <number>;</number></key>			
EX:			
_	TABLE TEST3(SNO INT, SAL NUMBER (10)) HASH(SAL) PARTITIONS 5;		
	ANT TO VIEW ALL PARTITIONS INFORMATION IN BASE THEN WE USE "USER_TAB_PARTITIONS" DATA		
EX:			
SQL> DESC US	ER_TAB_PARTITIONS;		
SQL> SELECT F	PARTITION_NAME FROM USER_TAB_PARTITIONS		
WHEDET	ADIE NAME-'TECTO':		

ADDING A NEW PARTITION:

SYNTAX:

ALTER TABLE <TN> ADD PARTITION <PARTITION NAME> VALUES LESS THAN(VALUE);

EX:

SQL> ALTER TABLE TEST1 ADD PARTITION P4 VALUES LESS THAN (4000);

DROPPING A PARTITION:

SYNTAX:

ALTER TABLE <TN> DROP PARTITION <PARTITION NAME>;

EX:

SQL> ALTER TABLE TEST1 DROP PARTITION P1;

NOTE: IF WE WANT TO KNOW WHETHER TABLE IS PARTITIONED OR NOT THEN WE USE "USER_TABLES" DATA DICTIONARY.

EX:

SQL> DESC USER_TABLES;

SQL> SELECT PARTITIONED FROM USER_TABLES WHERE TABLE_NAME='EMP';