data types

1)char --fixed length data

2)varchar2-->variable length data type

3)date

4) number

5)long

6)raw

7)LOB

--->CLOB, BLOB

--->Bfiles

name char(5)

abc--->5

a--->6

name varchar2(5)

abc-->3

a-->1

salary number(7)

salary number(7,2)

677.88

-------------------------------------------------------------------------

DDL

create table TableName(columnName datatype, columnname datatype,...);

create table dept(deptno number,dname varchar2(20));

--------------------------

alter table tableName

add/drop/modify/rename....;

------------------------------

alter table tableName

rename column oldcolumnName to newcolumnName;

----

alter table dept

rename column deptno to deptid;

------------------------------------------------

alter table tableName

add columnName datatype;

alter table tableName

add (columnName datatype,.....);

alter table dept

add locid number;

alter table dept

add (locid number,mgrid number);

---------------------------------------

alter table tableName

drop column columnName ;

alter table dept

drop column locid;

alter table dept

drop (locid,mgrid);

----------------------------------------------------

alter table tableName

modify coulumnname newdatatype;

alter table dept

modify dname varchar2(30);

alter table dept

modify deptid varchar2(3);

------------------------------------------------------

drop tabletableNAme;

drop table dept;

------------------------------

rename oldTableNAme to newtableNAme;

rename dept to dept123;

----------------------------

truncat table tableNAme;

truncat table dept123;

select object\_name, object\_type,status from user\_objects where object\_name='DEPT123';

------------------------------------------------------

constraints

1)not null

2)unique

3)primary key

4)check

5)foreign key

user\_constraints

column level

create table dept(deptno number primary key , dname varchar2(20) not null);

create table emp( empno number primary key, ename varchar2(30),

emailid varchar2(20) unique, salary number check (salary >0),

deptno number references dept(deptno));

select CONSTRAINT\_NAME , TABLE\_NAME, SEARCH\_CONDITION ,CONSTRAINT\_TYPE

from user\_constraints where table\_name='EMP'

----------------------------------------------------------

column level name the constraint

create table dept(deptno number constraint pk\_dept1 primary key ,

dname varchar2(20) constraint notnull\_name11 not null);

-------------------------------------------------------------

table level /system

create table dept(deptno number , dname varchar2(20) not null);

alter table tableNAme

add constraint constraintname typeofconstraint(columnName);

alter table tableNAme

drop constraint constraintname ;

alter table dept

add constraint deptpk\_001 primary key(deptno);

create table emp( empno number , ename varchar2(30),

emailid varchar2(20), salary number , deptno number );

alter table emp

add constraint const\_pk primary key(empno);

alter table emp

add constraint uk\_email unique(emailid)

alter table emp

add constraint chk\_sal11 check (salary>0);

alter table emp

add constraint fk\_deptno11 foreign key(deptno) references dept(deptno);

alter table emp

modify ename varchar2(30) not null;

alter table emp

drop constraint uk\_email;

alter table emp

drop primary key;

alter table emp

add constraint const\_pk primary key(empno,ename);

--------------------------------------------------------------------------------

DML

create table dept(deptno number primary key , dname varchar2(20) not null);

create table emp( empno number primary key, ename varchar2(30),

emailid varchar2(20) unique, salary number check (salary >0),

deptno number references dept(deptno));

insert into tableName values(.....);

insert into tableName(columnList) values(.....);

insert into dept values(10,'IT');

insert into dept(dname,deptno)values('HR',30);

insert into emp values(100,'fff','ff@techm', 8000,30);

-------------------------------------------

delete from tableNAme [where condition];

delete from emp;

delete from emp where empno=100;

delete from dept where deptno=10;

----------------------------------

create table dept(deptno number primary key , dname varchar2(20) not null);

create table emp( empno number primary key, ename varchar2(30),

emailid varchar2(20) unique, salary number check (salary >0),

deptno number references dept(deptno) on delete cascade);

--------------------------------------------------------------

create table dept(deptno number primary key , dname varchar2(20) not null);

create table emp( empno number primary key, ename varchar2(30),

emailid varchar2(20) unique, salary number check (salary >0),

deptno number references dept(deptno) on delete set null);

-----------------------------------------------------------

update tableNAme set columnname=value,columnName2=value,...

[where condition]

update emp set salary=salary+1000;

update emp set salary=salary+1000 where deptno=30;

------------------------------------------------

create index indexName on tableNAme(columnname);

create index index123 on emp(ename);

DD-->user\_indexes