**SQL Query**

create table tbl\_employee(eid number(5),ename varchar2(20),esalary number(7));

desc tbl\_employee;

insert into tbl\_employee values(101,'Chandra',7000);

insert into tbl\_employee values(102,'Manu',5000);

insert into tbl\_employee values(103,'Raju',8000);

insert into tbl\_employee values(104,'Srikanth',6000);

commit;

-- drop table tbl\_employee;

select \* from tbl\_employee;

insert into tbl\_employee values(105,null,4000);

insert into tbl\_employee(eid,esalary) values(106,3000);

commit;

select \* from tbl\_employee;

select eid,esalary from tbl\_employee;

select \* from tbl\_employee where eid=101;

select \* from tbl\_employee where ename='Raju';

select \* from tbl\_employee where eid!=101;

select \* from tbl\_employee where ename<>'Raju';

select \* from tbl\_employee where esalary<4000;

select \* from tbl\_employee where esalary<=7000;

select \* from tbl\_employee where esalary>=7000;

select \* from tbl\_employee where esalary>6000;

select \* from tbl\_employee where ename is null;

select \* from tbl\_employee where ename is not null;

select \* from tbl\_employee where eid in(101,105,108);

select \* from tbl\_employee where eid not in(101,105,108);

select \* from tbl\_employee where eid in(101,105,108) and ename is null;

select \* from tbl\_employee where eid in(101,105,108) or ename is null;

select \* from tbl\_employee where esalary between 3000 and 6000;

select \* from tbl\_employee where esalary not between 3000 and 6000;

select \* from tbl\_employee where ename like '\_a%';

select \* from tbl\_employee where ename like '%a%';

select \* from tbl\_employee where ename like '%a';

select \* from tbl\_employee where ename like '\_\_i%';

select \* from tbl\_employee where ename not like '\_\_i%';

select \* from tbl\_employee;

commit;

-- delete from tbl\_employee;

-- select \* from tbl\_employee;

-- rollback;

-- select \* from tbl\_employee;

-- delete from tbl\_employee where eid=101;

-- delete from tbl\_employee where eid in (102,104,107);

-- delete from tbl\_employee where ename like '\_a%';

update tbl\_employee set esalary=7000 where eid=103;

select \* from tbl\_employee;

-- update tbl\_employee set eid=0,esalary=0 where ename is null;

insert into tbl\_employee values(107,'Ajith',5000);

-- savepoint SA1;

--insert into tbl\_employee values(108,'Ajay',6000);

-- savepoint SA2;

insert into tbl\_employee values(109,'Ananth',7000);

--rollback to SA2;

select distinct esalary from tbl\_employee;

alter table tbl\_employee add doj date;

desc tbl\_employee;

select sysdate from dual;

select distinct sysdate from tbl\_employee;

update tbl\_employee set doj=sysdate;

select \* from tbl\_employee;

select sysdate from tbl\_employee;

select 10+20 from tbl\_employee;

select eid,esalary,esalary+700 from tbl\_employee;

alter table tbl\_employee drop column doj;

alter table tbl\_employee modify esalary number(10);

-- alter table tbl\_employee modify esalary number(7);

alter table tbl\_employee modify esalary number(10);

alter table tbl\_employee rename column esalary to emp\_salary;

select \* from tbl\_employee;

rename tbl\_employee to employee;

desc employee;

create table tbl\_employee as select \* from employee;

select \* from tbl\_employee;

truncate table employee;

select \* from employee;

desc employee;

drop table employee;

desc employee;

alter table tbl\_employee add dno number(5);

update tbl\_employee set dno=10 where eid in (101,102,103,104);

update tbl\_employee set dno=20 where eid not in (101,102,103,104);

select \* from tbl\_employee;

select dno,count(\*) from tbl\_employee group by dno;

select dno,sum(emp\_salary),min(emp\_salary),max(emp\_salary),avg(emp\_salary) from tbl\_employee group by dno;

select dno,count(\*) from tbl\_employee group by dno having min(emp\_salary)>3000;

select eid as "Employee Id" ,ename as "Employee Name" from tbl\_employee;

select \* from tbl\_employee order by eid;

select \* from tbl\_employee order by eid desc;

**24/10/24**

create table tbl\_agent(agent\_code varchar(5),agent\_name varchar2(15),working\_area varchar2(20));

create table tbl\_customers(customer\_code varchar(5),customer\_name varchar2(15),customer\_area varchar2(20));

insert into tbl\_agent values('A101','agent1','chennai');

insert into tbl\_agent values('A102','agent2','chennai');

insert into tbl\_agent values('A103','agent3','banglore');

insert into tbl\_agent values('A104','agent4','banglore');

insert into tbl\_agent values('A105','agent5','new york');

insert into tbl\_customers values('C101','customer1','chennai');

insert into tbl\_customers values('C102','customer2','chennai');

insert into tbl\_customers values('C103','customer3','chennai');

insert into tbl\_customers values('C104','customer4','banglore');

insert into tbl\_customers values('C105','customer5','banglore');

insert into tbl\_customers values('C106','customer6','delhi');

select \* from tbl\_agent;

select \* from tbl\_customers;

-- joining two tables without join

select a.agent\_name,c.customer\_name,c.customer\_area from tbl\_agent a,tbl\_customers c where a.working\_area=c.customer\_area;

--join

--Equi join

select a.agent\_name,c.customer\_name,c.customer\_area from tbl\_agent a join tbl\_customers c on a.working\_area=c.customer\_area;

--Non equi join

select a.agent\_name,c.customer\_name,c.customer\_area from tbl\_agent a join tbl\_customers c on a.working\_area<>c.customer\_area;

--outer join => display both matched and unmatched record

--left outer join

select \* from tbl\_agent a left outer join tbl\_customers c on a.working\_area=c.customer\_area;

select \* from tbl\_agent a left join tbl\_customers c on a.working\_area=c.customer\_area;

select \* from tbl\_agent a , tbl\_customers c where a.working\_area=c.customer\_area(+);

--right outer join

select \* from tbl\_agent a right outer join tbl\_customers c on a.working\_area=c.customer\_area;

select \* from tbl\_agent a right join tbl\_customers c on a.working\_area=c.customer\_area;

select \* from tbl\_agent a , tbl\_customers c where a.working\_area(+)=c.customer\_area;

--full outer join

select \* from tbl\_agent a full outer join tbl\_customers c on a.working\_area=c.customer\_area;

select \* from tbl\_agent a full join tbl\_customers c on a.working\_area=c.customer\_area;

--self join

select a.agent\_code,b.agent\_name from tbl\_agent a, tbl\_agent b where a.working\_area=b.working\_area;

--natural join

select a.agent\_name,c.customer\_area,c.customer\_name from tbl\_agent a natural join tbl\_customers c ;

--Sub Query

select \* from tbl\_agent where working\_area=(select customer\_area from tbl\_customers where customer\_code='C101');

select \* from tbl\_customers where customer\_area=(select working\_area from tbl\_agent where agent\_code='A101');

select \* from tbl\_customers where customer\_area in (select working\_area from tbl\_agent where agent\_code='A101' or agent\_code='A104');

--Sequence

create sequence seq\_emp\_id\_generator start with 1000 increment by 1;

select seq\_emp\_id\_generator.nextval from dual;

select seq\_emp\_id\_generator.currval from dual;

select \* from tbl\_agent;

insert into tbl\_agent values(seq\_emp\_id\_generator.nextval,'agent6','delhi');

--View

create view view\_agent as select \* from tbl\_agent where working\_area='banglore';

update view\_agent set agent\_name='chandra' where agent\_code='A103';

select \* from view\_agent;

select \* from tbl\_agent;

delete from view\_agent where agent\_code='A103';

drop view view\_agent;

-- Constraints

create table tbl\_student(sid number(5) primary key,sname varchar2(20) not null,smobile number(10) unique,smark number(3) check(smark>=0),slocation varchar2(20) default 'Chennai',sdoj date default sysdate);

insert into tbl\_student(sid,sname,smobile,smark) values (101,'Chandra',9880554264,70);

insert into tbl\_student(sid,sname,smobile,smark) values (102,'Srikanth',9880625339,-60);

create table tbl\_dept(dno number(5) primary key,dname varchar2(20));

create table tbl\_employee(eid number(5) primary key,ename varchar2(20),esalary number(5),dno number(3),foreign key(dno) references tbl\_deptg(dno));

desc tbl\_employee;

insert into tbl\_dept values(10,'Channels');

insert into tbl\_employee values(101,'Chandra',7000,10);

select \* from tbl\_dept;