

Data Definition Language (DDL) commands
create , alter, drop, rename, truncate

```
create table client_master (  
client_id varchar2(6),  
client_name varchar2(20),  
client_addr varchar2(30),  
remarks varchar2(50));
```

```
create table product_master (  
product_id varchar2(6) not null,  
product_desc varchar2(10) not null,  
unit_measure varchar2(8) not null,  
qty_onhand number(8) not null,  
unit_price number(8,2) not null,  
remarks varchar2(30),  
constraint prod_mast_prod_id_uniq unique(product_id));
```

```
create table product_master (  
product_id varchar2(6) ,  
product_desc varchar2(10) not null,  
unit_measure varchar2(8) not null,  
qty_onhand number(8) not null,  
unit_price number(8,2) not null,  
remarks varchar2(30),  
constraint prod_mast_prod_id_pk primary key(product_id));
```

```
create table sales_order(  
order_no varchar2(6),  
client_id varchar2(6) not null,  
order_date date not null,  
del_date date not null,  
constraint sales_ordno_PK primary key(order_no));
```

```
create table sales_order_details(  
order_no varchar2(6),  
product_id varchar2(6),  
qty_ordered number(8) not null,  
product_rate number(8,2) not null,  
constraint sales_order_prod_PK Primary key(order_no,product_id),  
constraint sales_order_orderno_FK foreign key(order_no) references sales_order(order_no),  
constraint sales_order_prodid_fk foreign key(product_id) references product_master(product_id),  
constraint chk_qty check (qty_ordered >=1));
```

```
create table departments_dac (  
dept_no number(2) constraint dept_dac_deptno_PK primary key,  
dept_name varchar2(20));
```

```
create table students(  
stud_no number(5),  
stud_name varchar2(20),  
dept_no number(2));
```

```
create table subjects(  
sub_no number(5) NOT Null,  
sub_name varchar2(15),  
dept_no number(2),  
pass number(2) default 50,  
attempts number(2) check (attempts>0 and attempts<=2),  
CONSTRAINT sub_subno_PK Primary key(sub_no),  
CONSTRAINT sub_deptno_FK Foreign key(dept_no) references departments_dac on delete cascade);
```

```
alter table students add constraint stud_studno_pk primary key(stud_no);
```

```
alter table students drop constraint stud_studno_pk;
```

```
alter table departments_dac add (location varchar2(10));
```

```
alter table departments_dac modify (location varchar2(20));
```

```
alter table departments_dac drop column location;
```

```
alter table student rename column studname to stud_name;
```

```
drop table students purge;
```

```
truncate table students;
```

```
rename students to dac_students;
```

Data Manipulation Language (DML) Commands
(select, insert, update, delete)

```
insert into product_master values(  
'p101','pen','piece',1,10.0,'test data');
```

```
insert into product_master (product_id,product_desc,qty_onhand,unit_measure,unit_price)  
values('p102','pencil',5,'piece',5.0);
```

```
insert into sales_order values(  
'ORD101','C101','25-mar-2005','30-mar-2005');
```

```
insert into sales_order values(  
'ORD102','C102','2-apr-2005','10-apr-2005');
```

```
insert into sales_order_details values ('ORD101','P103',100,1000);
```

```
select * from emp;  
select * from emp where deptno = 10;  
select empno,ename,job from emp where deptno = 20;
```

```
update emp set deptno = 10 where empno = 7369;
```

```
delete from students where deptno = 10;  
delete from students;
```