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-- File created - Sunday-April-27-2014
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-----
-- DDL for Table DEPT
-----
```

```
CREATE TABLE "DEPT" ("DEPTNO" NUMBER(2,0), "DNAME" VARCHAR2(14), "LOC"
VARCHAR2(13));
```

```
Insert into DEPT (DEPTNO,DNAME,LOC) values (10,'ACCOUNTING','NEW YORK');
Insert into DEPT (DEPTNO,DNAME,LOC) values (20,'RESEARCH','DALLAS');
Insert into DEPT (DEPTNO,DNAME,LOC) values (30,'SALES','CHICAGO');
Insert into DEPT (DEPTNO,DNAME,LOC) values (40,'OPERATIONS','BOSTON');
```

```
-----
-- DDL for Index PK_DEPT
-----
```

```
CREATE UNIQUE INDEX "PK_DEPT" ON "DEPT" ("DEPTNO");
```

```
-----
-- Constraints for Table DEPT
-----
```

```
ALTER TABLE "DEPT" ADD CONSTRAINT "PK_DEPT" PRIMARY KEY ("DEPTNO")
ENABLE;
```

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-- File created - Sunday-April-27-2014
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```
-----
-- DDL for Table EMP
-----
```

```
CREATE TABLE "EMP" ("EMPNO" NUMBER(4,0), "ENAME" VARCHAR2(10), "JOB"
VARCHAR2(9), "MGR" NUMBER(4,0), "HIREDATE" DATE, "SAL" NUMBER(7,2),
"COMM" NUMBER(7,2), "DEPTNO" NUMBER(2,0));
```

```
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7369,'SMITH','CLERK',7902,to_date('17-DEC-80','DD-MON-RR'),800,null,20);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7499,'ALLEN','SALESMAN',7698,to_date('20-FEB-81','DD-MON-
RR'),1600,300,30);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7521,'WARD','SALESMAN',7698,to_date('22-FEB-81','DD-MON-
RR'),1250,500,30);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7566,'JONES','MANAGER',7839,to_date('02-APR-81','DD-MON-
RR'),2975,null,20);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7654,'MARTIN','SALESMAN',7698,to_date('28-SEP-81','DD-MON-
RR'),1250,1400,30);
```

```

Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7698,'BLAKE','MANAGER',7839,to_date('01-MAY-81','DD-MON-
RR'),2850,null,30);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7782,'CLARK','MANAGER',7839,to_date('09-JUN-81','DD-MON-
RR'),2450,null,10);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7788,'SCOTT','ANALYST',7566,to_date('19-APR-87','DD-MON-
RR'),3000,null,20);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7839,'KING','PRESIDENT',null,to_date('17-NOV-81','DD-MON-
RR'),5000,null,10);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7844,'TURNER','SALESMAN',7698,to_date('08-SEP-81','DD-MON-
RR'),1500,0,30);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7876,'ADAMS','CLERK',7788,to_date('23-MAY-87','DD-MON-
RR'),1100,null,20);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7900,'JAMES','CLERK',7698,to_date('03-DEC-81','DD-MON-RR'),950,null,30);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7902,'FORD','ANALYST',7566,to_date('03-DEC-81','DD-MON-
RR'),3000,null,20);
Insert into EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO) values
(7934,'MILLER','CLERK',7782,to_date('23-JAN-82','DD-MON-
RR'),1300,null,10);

```

```

-----
-- DDL for Index PK_EMP
-----

```

```

CREATE UNIQUE INDEX "PK_EMP" ON "EMP" ("EMPNO");

```

```

-----
-- Constraints for Table EMP
-----

```

```

ALTER TABLE "EMP" ADD CONSTRAINT "PK_EMP" PRIMARY KEY ("EMPNO") ENABLE;

```

```

-----
-- Ref Constraints for Table EMP
-----

```

```

ALTER TABLE "EMP" ADD CONSTRAINT "FK_DEPTNO" FOREIGN KEY ("DEPTNO")
REFERENCES "DEPT" ("DEPTNO") ENABLE;

```

```

-----
-----
Create Table comp_dtls
(comp_code varchar2(10) constraint PK_COMP_CODE PRIMARY KEY,
comp_name varchar2(20),
city varchar2(10));

```

```

Insert into comp_dtls values('I101','IBM','NEW YORK');
Insert into comp_dtls values('W202','WIPRO','CHICAGO');
Insert into comp_dtls values('D303','DELL','TEXAS');
Insert into comp_dtls values('S404','SAMSUNG','KOREA');

```

```

Create table Prod_dtls
(prod_code varchar2(10),
prod_name varchar2(20),
cost number(7,2),
mfg date,
warrenty varchar2(10));

Insert into Prod_dtls values('ILTPQS','LAPTOP',45000,'11-FEB-12','4
YEARS');
Insert into Prod_dtls values('ILTPXS','LAPTOP',34000,'21-MAR-12','4
YEARS');
Insert into Prod_dtls values('ILTPZS','LAPTOP',40000,'12-FEB-13','7
YEARS');
Insert into Prod_dtls values('WDTPG','DESKTOP',23000,'30-OCT-12','1
YEAR');
Insert into Prod_dtls values('WCFLI','LIGHTS',3400,'22-JAN-13','2
YEARS');
Insert into Prod_dtls values('DDTPW','DESKTOP',27000,'13-NOV-12','5
YEARS');
Insert into Prod_dtls values('DLTPG','LAPTOP',46000,'08-JAN-13','2
YEARS');
Insert into Prod_dtls values('DMBLY','MOBILE',32000,'10-JAN-13',NULL);
Insert into Prod_dtls values('SLTPC','LAPTOP',34000,'04-DEC-12','6
MONTHS');
Insert into Prod_dtls values('SLTPD','LAPTOP',45000,'09-DEC-12','2
YEARS');
Insert into Prod_dtls values('SMBLGLXY','MOBILE',24000,'10-JAN-12','1
YEAR');
Insert into Prod_dtls values('SMBLGLXG','MOBILE',21500,'02-FEB-13','1
YEAR');

ALTER TABLE PROD_DTLS
ADD COMP_CODE VARCHAR2(10);

ALTER TABLE PROD_DTLS
ADD CONSTRAINT FK_COMP_CODE FOREIGN KEY (COMP_CODE)
REFERENCES COMP_DTLS (COMP_CODE)
ON DELETE CASCADE;

UPDATE PROD_DTLS
SET COMP_CODE='I101'
WHERE PROD_CODE LIKE 'I%';

UPDATE PROD_DTLS
SET COMP_CODE='W202'
WHERE PROD_CODE LIKE 'W%';

UPDATE PROD_DTLS
SET COMP_CODE='D303'
WHERE PROD_CODE LIKE 'D%';

UPDATE PROD_DTLS
SET COMP_CODE='S404'
WHERE PROD_CODE LIKE 'S%';

--DROP TABLE CUST_DTLS ;

Create Table Cust_dtls

```

```

(
cno  varchar2(10) CONSTRAINT PK_Cno PRIMARY KEY,
cname varchar2(12),
city  varchar2(10),
gender      char
);

insert into cust_dtls values('cust-1','Ajay','Texas','M');
insert into cust_dtls values('cust-2','Kiran','Chicago','M');
insert into cust_dtls values('cust-3','vinod','Delhi','M');
insert into cust_dtls values('cust-4','Madhu','Delhi','M');
insert into cust_dtls values('cust-5','Rocky','Texas','M');
insert into cust_dtls values('cust-6','Ching Fu','Chicago','F');
insert into cust_dtls values('cust-7','Sonali','Delhi','F');

--DROP TABLE ACT_TYPES;

Create table  Act_types
(
Act_type          varchar2(5) CONSTRAINT PK_ACT_TYPE PRIMARY KEY,
Act_name          varchar2(30)
);

Insert into Act_types values('SB','Savings Bank A/c. ');
Insert into Act_types values('CA','Current A/c. ');
Insert into Act_types values('SAL','Salary A/c. ');
Insert into Act_types values('DEMAT','Trading A/c. ');
Insert into Act_types values('LOAN','Home loan A/c. ');
Insert into Act_types values('FD','Fixed Deposit A/c. ');

DROP TABLE CUST_ACT_DTLS;

Create Table Cust_act_dtls
(
actno char(11) constraint pk_actno primary key,
act_type  varchar2(5),
constraint fk_act_type FOREIGN key(act_type) references
act_types(act_type)
on delete cascade,
act_open_date  date  constraint nn_OpenDate Not Null,
act_bal        number(8,2),
cust_code  VARCHAR2(10) ,
constraint fk_cust_code  FOREIGN key(cust_code) references
cust_dtls(cno)
on delete cascade
);

Insert into cust_act_dtls Values
('20035201470','SB','11-MAY-10',49000,'cust-3');

Insert into cust_act_dtls Values
('20035201471','SAL','21-MAY-11',32000,'cust-1');

Insert into cust_act_dtls Values
('20035201472','DEMAT','21-MAY-11',123000,'cust-3');

Insert into cust_act_dtls Values
('20035201473','SB','01-MAR-12',23000,'cust-2');

```

```
Insert into cust_act_dtls Values
('20035201474','SAL','16-OCT-11',11000,'cust-4');
```

```
Insert into cust_act_dtls Values
('20035201475','SB','21-MAY-11',13000,'cust-5');
```

```
Insert into cust_act_dtls Values
('20035201476','SAL','21-MAY-11',23000,'cust-6');
```

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-----
-----Tables For Set Operators-----
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```

```
CREATE TABLE CUST_DTLS_BR1
(
CID      char(5),
Cname varchar2(20),
city  varchar2(20),
Gender      varchar2(7),
Mobile      number(10)
);
```

```
-----DATA-----
```

```
insert into cust_dtls_br1 values('c001','jaya','hyd','male',986612121);
insert into cust_dtls_br1 values('c002','kiran','hyd','male',9866986612);
insert into cust_dtls_br1
values('c003','hemanth','hyd','male',8888888888);
insert into cust_dtls_br1
values('c004','izaq','hyd','female',7676767676);
insert into cust_dtls_br1 values('c005','vasavi','hyd','female',null);
```

```
CREATE TABLE CUST_DTLS_BR2
(
CID      char(5),
Cname varchar2(20),
city  varchar2(20),
Gender      varchar2(7),
Mobile      number(10)
);
```

```
-----DATA-----
```

```
insert into cust_dtls_br2 values('c001','jabbar','delhi','male',null);
insert into cust_dtls_br2
values('c002','hari','delhi','male',9898989898);
insert into cust_dtls_br2
values('c003','smith','bangalore','female',8787878787);
insert into cust_dtls_br2
values('c004','izaq','hyd','female',7676767676);
```

```
CREATE TABLE CUST_DTLS_BR3
(
```

```

CID    char(5),
Cname  varchar2(20),
city   varchar2(20),
Gender    varchar2(7),
Mobile    number(10)
);

```

-----DATA-----

```

insert into cust_dtls_br3
values('c001','venkat','chennai','male',2323232323);
insert into cust_dtls_br3 values('c002','kanth','delhi','male',null);
insert into cust_dtls_br3
values('c003','smith','bangalore','female',8787878787);
insert into cust_dtls_br3
values('c004','john','delhi','male',9090909090);
insert into cust_dtls_br3 values('c005','bobby','chennai','female',null);

```

SYN: A table with key constraints:

```

create table <table_name>
(col1 datatype(size) <constraint_name>,
col2 datatype(size) <constraint_name>,
:      :      :      :
);

```

Ex: create a table student with columns rno,sname,course,fee and mobile along with constraints pk,nn,nn,nn and unique respectively?

```

create table student
(rno number(2) primary key,
sname varchar2(10) not null,
course    varchar2(5) not null,
fee    number(5) not null,
mobile    char(10) unique);

```

sample:

RNO	SNAME	COURS	FEE	MOBILE
0	a	cse	34000	1212
10	z	it	94000	
11	x	abc	4000	1515

Ex: with domain constraints:

```

create table stud_dtls
(rno number(2) primary key,
sname varchar2(10) not null,
course varchar2(5) not null,
fee number(5) not null,

```

```

mobile char(10) unique,
check (rno between 1 and 60),
check (course in('cse','ece','eee','it')),
check (fee between 27000 and 34000) );

```

```

insert into stud_dtls values(1,'anil','cse',27000,1212);

```

```

insert into stud_dtls values(0,'kiran','cse',27000,1312);

```

ERROR at line 1:

ORA-02290: check constraint (DINESH9210.SYS_C006504) violated

```

insert into stud_dtls values(60,'ajay','it',37000,1112);

```

ERROR at line 1:

ORA-02290: check constraint (DINESH9210.SYS_C006506) violated

```

insert into stud_dtls values(60,'ajay','it',30000,1112);

```

RNO	SNAME	COURS	FEE	MOBILE
60	ajay	it	30000	1112
1	anil	cse	27000	1212
2	vijay	eee	27000	

CONSTRAINT_NAME	CONSTRAINT_TYPE
SYS_C006501	C
SYS_C006502	C
SYS_C006503	C
SYS_C006504	C
SYS_C006505	C
SYS_C006506	C [not null or check constraint]
SYS_C006507	P [primary key]
SYS_C006508	U [unique key]

8 rows selected.

```

Create table cust_dtls
(cno char(5) constraint pk_cno primary key,
cname varchar2(10),
city varchar2(10));

```

Creating the table Act_types

```

Ex: create table student
(rno number(2),
name varchar2(10),
course varchar2(7),
mobile char(13));

```

Ex: add primary key to the column rno

```

alter table student

```

```
add constraint pk_rno primary key(rno);
```

```
Ex: alter table student  
add constraint uk_mobile unique(mobile);
```

```
Ex: remove primary key constraint
```

```
alter table student  
drop constraint pk_rno;
```

```
Ex: alter table student  
add constraint ck_rno check(rno between 1 and 60);
```

```
Ex: alter table student  
add join_dt date;
```

```
Ex: alter table student  
add constraint ck_jdate check(join_dt>='07-jul-2013');
```

```
EX: alter table student  
drop constraint ck_jdate;
```

```
Ex: alter table student  
add constraint ck_jdate check(join_dt between '07-jul-2013' and  
                                     '31-jul-2013');
```