**Section14**

**DP 14.1:**

1.create a table:

CREATE TABLE clients

(client\_number NUMBER(4),

first\_name VARCHAR2(14),

last\_name VARCHAR2(13)

    );

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2.creating constraints:

CREATE TABLE client

(client\_number NUMBER(4) CONSTRAINT clients\_client\_num\_pk PRIMARY KEY,

first\_name VARCHAR2(14),

last\_name VARCHAR2(13));

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3.constraints at the column level

CREATE TABLE clients1

(client\_number NUMBER(4) CONSTRAINT clients\_cient\_num\_pk PRIMARY KEY,

last\_name VARCHAR2(13) CONSTRAINT clients\_last\_name\_nn NOT NULL,

email VARCHAR2(80) CONSTRAINT clients\_emil\_uk UNIQUE

);

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4.user name constraint and system name constraint:

CREATE TABLE clie

(client\_number NUMBER(4) CONSTRAINT clie\_clie\_num\_pk PRIMARY KEY,

last\_name VARCHAR2(13) NOT NULL,

email VARCHAR2(80));

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5.constraints at the table level:

CREATE TABLE clien (

client\_number NUMBER(6) NOT NULL,

first\_name VARCHAR2(20),

last\_name VARCHAR2(20),

phone VARCHAR2(20),

email VARCHAR2(10) NOT NULL,

CONSTRAINT clients\_phone\_email\_uk UNIQUE (email,phone)

          );

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6.violation:

CREATE TABLE clients(

client\_number NUMBER(6),

first\_name VARCHAR2(20),

last\_name VARCHAR2(20),

phone VARCHAR2(20) CONSTRAINT phone\_email\_uk UNIQUE(email,phone),

email VARCHAR2(10) CONSTRAINT NOT NULL,

CONSTRAINT emailclients\_email NOT NULL,

CONSTRAINT clients\_client\_num\_pk PRIMARY KEY (client\_number)

);

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7.unique constraint example:

insert into clients4(client\_number,first\_name,last\_name,phone,email)

values (01,vishnu,chaithanya,564123,'vishnu@123');

insert into clients4(client\_number,first\_name,last\_name,phone,email)

values (02,pusalapati,chandu,54896,'chandu@123');

insert into clients4(client\_number,first\_name,last\_name,phone,email)

values (03,'gongora','sai',5549864123,'vishnu@123');

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8.composite unique:

insert into clients5(client\_number,first\_name,last\_name,phone,email)

values (01,rv,saai,246,'abced@123');

insert into clients5(client\_number,first\_name,last\_name,phone,email)

values (02,chandu,raj,5647589,'abcd@123');

insert into clients5(client\_number,first\_name,last\_name,phone,email)

values (03,'abcd','sai',564789,'abcd@123');

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**DP 14.2:**

Primary key:

CREATE TABLE client

(client\_number NUMBER(4) CONSTRAINT clients\_client\_num\_pk PRIMARY KEY,

first\_name VARCHAR2(14),

last\_name VARCHAR2(13));

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Constraints at the table level(primary key):

CREATE TABLE cli

(client\_number NUMBER(4),

first\_name VARCHAR2(14),

last\_name VARCHAR2(13),

CONSTRAINT cli\_num\_pk PRIMARY KEY (client\_number));

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primary key constraint:

CREATE TABLE copy\_job\_history

(employee\_id NUMBER(6,0),

start\_date DATE,

job\_id VARCHAR2(10),

department\_id NUMBER(4,0),

CONSTRAINT copy\_jhist\_id\_st\_date\_pk PRIMARY KEY(employee\_id,

   start\_date));

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foreign key:

CREATE TABLE copy\_employees

(employee\_id NUMBER(6,0) CONSTRAINT copy\_emp\_pk PRIMARY KEY,

first\_name VARCHAR2(20),

last\_name VARCHAR2(25),

department\_id NUMBER(4,0) CONSTRAINT c\_emps\_dept\_id\_fk

REFERENCES departments(department\_id),

email VARCHAR2(25));

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