Task 1: - Create a table and set an attribute as primary key illustrate how primary key set restrictions.

Table 1: Holder

CREATE TABLE holder (u_id number not null,name varchar(20),age number,policy_no number,address varchar(30),**PRIMARY KEY (u_id)**);

SELECT * FROM holder;

U_id	name	age	Policy_no	Adresss
1	Nilesh Wani	21	270	Chikalthana
2	Ujair Shaha	20	271	Cidco
3	Abhishek Jadhav	22	272	Ramnagar

Table 2: Plan

CREATE TABLE plan (p_id number not null,type varchar(20),ammount number,duration number,**PRIMARY KEY (p_id)**);

SELECT * FROM plan;

P_id	Type	Ammount	Duration
121	Normal	100000	1
122	Super	200000	2
123	Special	300000	3

 INSERT INTO plan VALUES (121,'normal',100000,1);

This Insert Query shows error and values are not inserted because primary key should be unique.

INSERT INTO plan VALUES (' ','super',200000,2);

This Insert Query shows error and values are not inserted because primary key is not null.

Task 2: - Create a table where you are referring primary key as foreign key.

Table 3: Puechase

CREATE TABLE purchase (u_id number,p_id number,validity number,foreign key (u_id) **REFERENCES** holder(u_id),**FOREIGN KEY** (p_id) references plan(p_id));

SELECT * FROM purchase**;**

U_id	P_id	Validity
1	122	2
2	123	3
3	124	4

Task 3: - Illustrate Unique and Not Null Constraints on non primary attribute

CREATE TABLE holder (u_id number **NOT NULL,**name varchar(20),age number,policy_no number **UNIQUE,**address varchar(30),**PRIMARY KEY (u_id)**);

SELECT * FROM holder;

U_id	name	age	Policy_no	Adresss
1	Nilesh Wani	21	270	Chikalthana
2	Ujair Shaha	20	271	Cidco
3	Abhishek Jadhav	22	272	Ramnagar

INSERT INTO holder VALUES(' ','Ujair Shaha',20,278,'Cidco');

This Insert Query shows error and values are not inserted because it voided the not null constraint

INSERT INTO holder VALUES (3,'Abhishek Jadhav',22,272,'Ramnagar');

This Insert Query shows error and values are not inserted because it voided the unique constraint

Task 4: - Illustrate Check key and Check constraint

CREATE TABLE holder (u_id number not null,name varchar(20),age number **CHECK** (age >=20),policy_no number,address varchar(30) **DEFAULT** 'Aurangabad',**PRIMARY KEY (u_id)**);

INSERT INTO holder VALUES (5,'Rohit Patil',20,278,'Cidco');

SELECT * FROM holder;

U_id	name	age	Policy_no	Adresss
1	Nilesh Wani	21	270	Chikalthana
2	Ujair Shaha	20	271	Cidco
3	Abhishek Jadhav	22	272	Ramnagar
5	Rohit Patil	20	278	**Aurangabad**

INSERT INTO holder VALUES (6,'Yash Tupe',19,279,'Cidco');

This Insert Query shows error and values are not inserted because it voided the Check constraint

(age should be greater than 20 or equal to 20).

Conclusion: -

Date of Performance by Student	Date of Assessment by Staff	Staff Signature	Remark