PRACTICAL-8

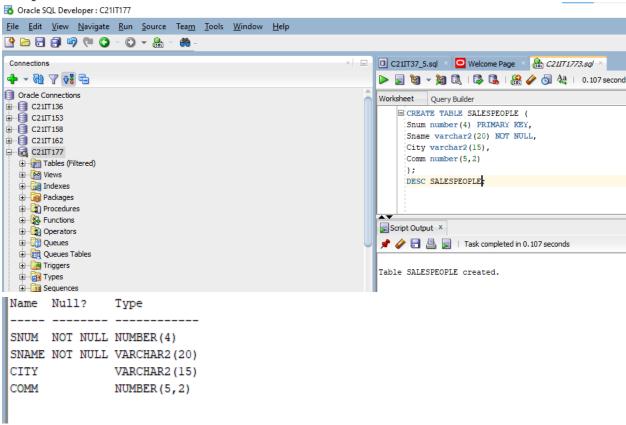
Aim: To apply the concept of integrity/data constraints while creating or altering table.

Query-1: Create Table Salespeople

SQL Statement:

CREATE TABLE SALESPEOPLE (
Snum number(4) PRIMARY KEY,
Sname varchar2(20) NOT NULL,
City varchar2(15),
Comm number(5,2)
);
DESC SALESPEOPLE;

Output:

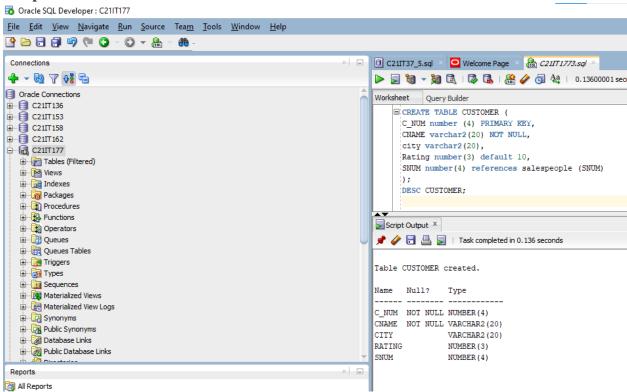


Query-2: Create table CUSTOMER

SQL Statement:

CREATE TABLE CUSTOMER (
C_NUM number (4) PRIMARY KEY,
CNAME varchar2(20) NOT NULL,
city varchar2(20),
Rating number(3) default 10,
SNUM number(4) references salespeople (SNUM)
);
DESC CUSTOMER;

Output:

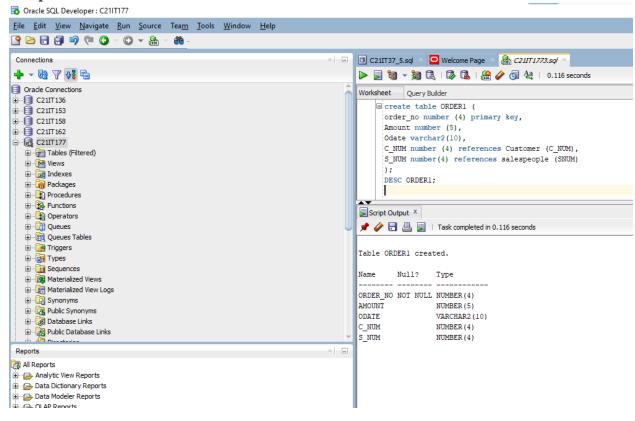


Query-3: Create table Order

SQL Statement:

create table ORDER1 (order_no number (4) primary key, Amount number (5), Odate varchar2(10), C_NUM number (4) references Customer (C_NUM), S_NUM number(4) references salespeople (SNUM)); DESC ORDER1;

Output:



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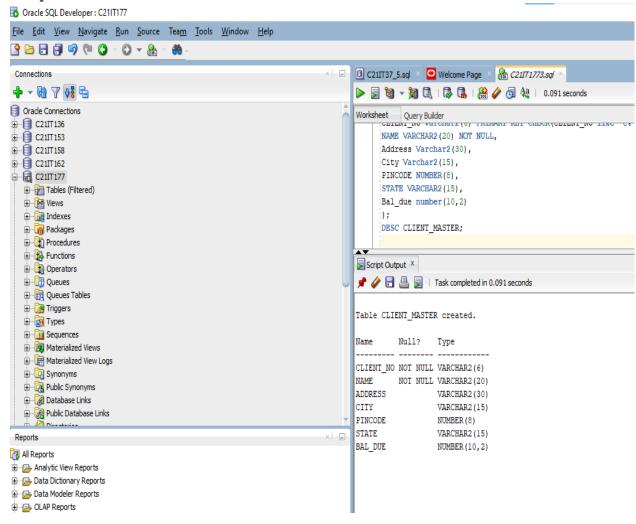
Query-4: Create Table Client_master

Column name	Data type	Constraints
Client_no	Varchar2(6)	Primary key/first letter must start with 'C'
Name	Varchar2(20)	Not null
Address	Varchar2(30)	
City	Varchar2(15)	
Pincode	Number(8)	
State	Varchar2(15)	
Bal_due	Number(10,2)	

SQL Statement:

```
create table CLIENT_MASTER (
CLIENT_NO varchar2(6) PRIMARY KEY CHECK(CLIENT_NO like 'C%'),
NAME VARCHAR2(20) NOT NULL,
Address Varchar2(30),
City Varchar2(15),
PINCODE NUMBER(8),
STATE VARCHAR2(15),
Bal_due number(10,2)
);
DESC CLIENT MASTER;
```

Output:



Query-5: Create Table Sales Master

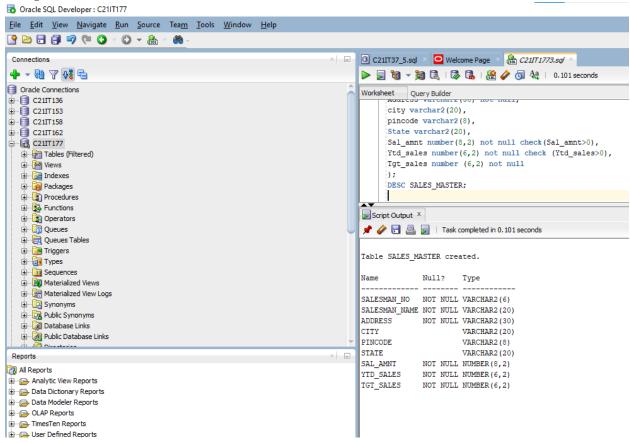
5. Table: salesman master

	_	
Column name Salesman_no Salesman	Data type Varchar2(6) Varchar2(20	Constraints Primary key/first letter must start with 'S' Not null
_name Address	Varchar2(30	Not null
City	Varchar2(20	
Pincode	Varchar2(8)	
State	Varchar2(20	
)	
Sal_amt	Number(8,2)	Not null, cannot be 0
Ytd_sales	Number(6,2)	Not null, cannot be 0
Tgt_sales	Number(6,2)	Not null

SQL Statement:

```
create table SALES_MASTER (
salesman_no varchar2(6) primary key check (salesman_no like '%'),
salesman_name varchar2(20) not null,
Address varchar2(30) not null,
city varchar2(20),
pincode varchar2(8),
State varchar2(20),
Sal_amnt number(8,2) not null check(Sal_amnt>0),
Ytd_sales number(6,2) not null check (Ytd_sales>0),
Tgt_sales number (6,2) not null
);
DESC SALES MASTER;
```

Output:



Query-6: Create Table Sales Order

Column Name	Data Type	Contraints
Order_no	Varchar2(6)	Primary key/First letter start with 'O'
Order_date	Date	
Client_no	Varchar2(6)	Foreign Key references client no of
	1,	client master table
Dely_addr	Varchar2(25)	
Salesman_no	Varchar2(6)	Foreign Key refrences sales no of
		Salesman master table
Dely_type	char	Delivery: part(P)/ full (f) Default 'F'
Order status	Varchar2	In Process, Fulfilled, Backorder, Cancelled

SQL Statement:

CREATE TABLE SALES ORDER(

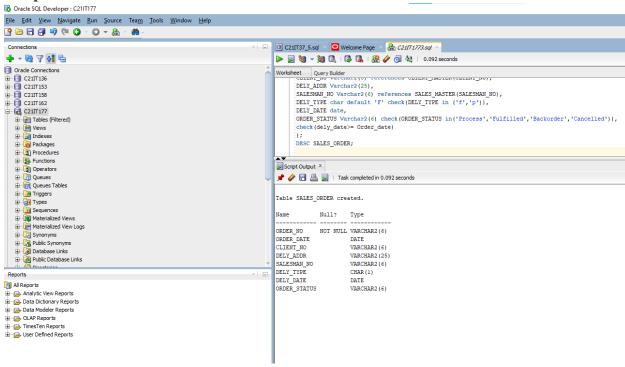
ORDER NO Varchar2(6) Primary key check(ORDER NO like 'O%'),

ORDER DATE Date,

CLIENT NO Varchar2(6) references CLIENT MASTER(CLIENT NO),

```
DELY_ADDR Varchar2(25),
SALESMAN_NO Varchar2(6) references SALES_MASTER(SALESMAN_NO),
DELY_TYPE char default 'F' check(DELY_TYPE in ('f','p')),
DELY_DATE date,
ORDER_STATUS Varchar2(6) check(ORDER_STATUS
in('Process','Fulfilled','Backorder','Cancelled')),
check(dely_date>= Order_date)
);
DESC SALES ORDER;
```

Output:



CONCLUSION: From this practical we learn how to apply integrity constraints while creating or altering table.