EXPERIMENT NO: 3 Study Of Constraints

AIM:

Study About Different Constraints.

THEORETICAL BACKGROUND:

CONTRAINTS

In DBMS (Database Management Systems), constraints are **guidelines or limitations imposed on database tables to maintain the integrity, correctness, and consistency of the data**. Constraints can be used to enforce data linkages across tables, verify that data is unique, and stop the insertion of incorrect data.

Types Of Constraints

- 1. NOTNULL
- 2. UNIQUE
- 3. PRIMARY KEY
- 4. FOREIGN KEY
- 5. CHECK
- 6. DEFAULT

Questions:

 Create a table with name customer and fields as follows: cust_id number, name varchar2(20), hname varchar2(20), street varchar2(20), phone integer.

create table customer(cust_id int,name varchar(20),hname varchar(20),street varchar(20),phone int);

2. Create table items with the following fields: item_code number, name char(1), Current_stock number, Unitprice number

create table items(item_code number(5), name varchar2(20), stock_number int, unit_price int);

3) Create table order with fields as follows Order_id number, Cust_id number, Item_code number,Order_quantity number, Delivery_date date, payment_mode char(1).

create table order(order_id int, cust_id int, item_code int(5), order_date date, expiry_date date, delivery_date date, payment_mode char(1));

4). Alter the table to add a primary key to cust_id in customer.

alter table customer add constraint p1k primary key(cust id);

5). Alter the table to add a primary key to item_code in items.

alter table items add constraint p2k primary key(item_code);

6). Alter the table to set foreign key constraint in order to link with customer using cust_id field.

alter table order add constraint foreign key references customer(cust_id);

7). Add a not null constraint to the field order_date.

alter table order modify order date constraint c1 not null;

8). Add a unique constraint for the order id in order.

alter table order modify order id constraint c2 unique;

9). Add a check constraint to the field payment_mode in order such that it takes three values'D' (for cheque), 'R' (for cash) and 'C' (for credit card).

alter table order add constraint c3 check (payment_mode in ('D', 'R', 'C'));

10). Add a new field 'remark' as char(10) to the order and set the default value as 'direct'.

alter table order add remark char(10) default 'direct';

11). Drop all the Tables customer, order and items.

Drop Table customer; Drop Table items; Drop Table Order;

RESULT:

The query was executed successfully and output was verified.