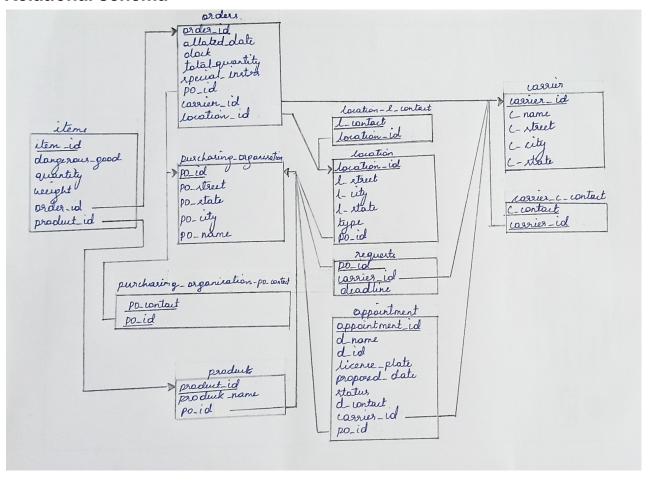
Database Management Systems - UE19CS301 Assignment-2

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Section: H

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Relational schema



Why did we use PostgreSQL?

- The choice of DBMS is PostgreSQL.
- The database we are dealing with consists of only structured data.
- The attributes in the table mostly belong to integer, boolean, character, date datatype elements, but not multimedia data etc and hence RDBMS like mysql or postgresql is a good choice.
- Several constraints like domain constraints, key constraints, NULL constraints etc are easy to understand and implement. Hence with ease, we have applied constraints on NULL, key constraints, Referential Integrity, Entity Integrity and domain constraints on our data.
- PostgreSQL is open-source, free and far more secure than MySQL and has additional features.
- PostgreSQL like most SQL DBMS allows concurrent access by multi-users; for example many carriers can access the database at the same time.

CODE: create.sql

```
DROP DATABASE dockwarehouse_mgt;

CREATE DATABASE dockwarehouse_mgt;

\textstyle dockwarehouse_mgt

CREATE TABLE purchasing_organization

(

po_street VARCHAR(20) ,

po_state VARCHAR(20),

po_city VARCHAR(20),

po_id INT,

po_name VARCHAR(20) NOT NULL,

PRIMARY KEY (po_id)

);

CREATE TABLE carrier

(
carrier_id INT,

c_name VARCHAR(20) NOT NULL,
```

```
c street VARCHAR(20),
c city VARCHAR(20),
c state VARCHAR(20),
1 street VARCHAR(20),
1 city VARCHAR(20),
1 state VARCHAR(20),
location id INT,
po id INT,
PRIMARY KEY (location id),
FOREIGN KEY (po id) REFERENCES purchasing organization (po id)
);
CREATE TABLE appointment
appointment id INT,
license plate VARCHAR(10) NOT NULL,
proposed date DATE NOT NULL,
d contact VARCHAR(10),
po id INT NOT NULL,
PRIMARY KEY (appointment id),
FOREIGN KEY (po id) REFERENCES purchasing organization (po id)
CREATE TABLE product
product id INT,
product name VARCHAR(30) NOT NULL,
po id INT NOT NULL,
PRIMARY KEY (product_id),
FOREIGN KEY (po id) REFERENCES purchasing organization (po id)
```

```
CREATE TABLE requests
deadline DATE,
po id INT,
PRIMARY KEY (po id, carrier id),
FOREIGN KEY (po id) REFERENCES purchasing organization (po id),
);
CREATE TABLE purchasing organization po contact
po contact VARCHAR(10),
po id INT,
PRIMARY KEY (po contact, po id),
FOREIGN KEY (po id) REFERENCES purchasing organization (po id)
);
c contact VARCHAR(10),
PRIMARY KEY (c contact, carrier id),
l contact VARCHAR(10),
FOREIGN KEY (location id) REFERENCES location(location id)
CREATE TABLE orders
order id INT,
alloted date DATE NOT NULL,
total quantity INT NOT NULL,
special instrs VARCHAR(100),
po id INT NOT NULL,
```

```
location_id INT NOT NULL,
PRIMARY KEY (order_id),
FOREIGN KEY (po_id) REFERENCES purchasing_organization(po_id),
FOREIGN KEY (carrier_id) REFERENCES carrier(carrier_id),
FOREIGN KEY (location_id) REFERENCES location(location_id)
);

CREATE TABLE items
(
   item_id INT,
   dangerous_good INT,
   quantity INT NOT NULL,
   weight FLOAT NOT NULL,
   order_id INT,
   product_id INT NOT NULL,
   PRIMARY KEY (item_id),
   FOREIGN KEY (order_id) REFERENCES orders(order_id),
   FOREIGN KEY (product_id) REFERENCES product(product_id)
);
```

insert.sql

```
\c dockwarehouse mgt
insert into purchasing organization values ('Bluebonnet
Cane','Mumbai','Pune',1,'Nestle'),('Kirby
Road','Hyderabad','Hyderabad',2,'Intel'),('Elgin Road','Delhi','New
Delhi',3,'Tata Motors'),('Lark
Lane','Maharastra','Pune',4,'Haldirams'),('Fontane Lane','Tamil
Nadu','Chennai',5,'Pepsi Co.'),('Lavelle
Road','Karnataka','Bangalore',6,'Unilever'),('Avenue
street','Karnataka','Bangalore',7,'Kellogs'),('MG
Road', 'Karnataka', 'Bangalore', 8, 'Hersheys'), ('SP
Road','Karnataka','Bangalore',9,'Red Bull');
insert into purchasing organization po contact
values('9008933991',1),('6147613491',1),('9113253710',2),('9214263811',
3),('9315273913',3),('9416284020',3),('9517294121',4),('9618304212',5),
('9719314310',6),('9920324410',7),('7921334599',7),('6102344621',8),('9
112335472',9),('9122437891',9);
```

```
Road', 'Bangalore', 'Karnataka'), (33, 'XPO', 'Tilak
Road', 'Bangalore', 'Karnataka'), (44, 'YRC', 'Fort
Road', 'Kozhikode', 'Kerala'), (55, 'R+L', 'Baga
Road','Cuncolim','Goa'),(99,'Holland','Manjappa
Road','Bangalore','Karnataka'),(25,'Read Away','Sanki
Road', 'Bangalore', 'Karnataka'), (66, 'Aveerit Express', 'St.Marks
Road','Bangalore','Karnataka'),(68,'Forward Air','DVG
Road','Bangalore','Karnataka'),(77,'Oak Harbour','Race Course
Road', 'Bangalore', 'Karnataka'), (26, 'UPS Freight', 'LK
Road', 'Bangalore', 'Karnataka');
insert into requests
values('2020-10-2',1,22),('2020-11-6',2,33),('2020-12-4',9,44),('2021-1
0-7',8,55),(NULL,4,99),('2020-10-5',5,25),('2020-10-10',2,26),(NULL,3,6
6);
insert into location
values('Malleshwaram','Bangalore','Karnataka','s',111,NULL),('EC','Bang
alore','Karnataka','s',121,NULL),('Kormangala','Bangalore','Karnataka',
'p',122,1),('Whitefeild','Bangalore','Karnataka','p',123,2),('Bayappana
lli', 'Bangalore', 'Karnataka', 'p', 124, 3), ('Afzad
khulm','Warangal','Telangana','s',125,NULL),('Sultan
Bazar','Warangal','Telangana','s',126,NULL),('Kaveri
Street', 'Chennai', 'Tamil Nadu', 's', 127, NULL), ('MKB
Road', 'Pune', 'Maharastra', 's', 128, NULL), ('JFK
Road', 'Pune', 'Maharastra', 'p', 129, 4), ('SQG
Road','Pune','Maharastra','p',130,5),('SQL Road','Coimbature','Tamil
Nadu','p',131,6),('Avenue
Street', 'Bangalore', 'Karnataka', 'p', 132, 7), ('MG
Road', 'Bangalore', 'Karnataka', 'p', 133, 8), ('SP
Road', 'Bangalore', 'Karnataka', 'p', 134, 9), ('Levelle
Road','Bangalore','Karnataka','p',135,2);
insert into location 1 contact
values(9993398009,111),(9943167416,121),(9173523119,123),(9393725139,12
4),(9204826149,125),(9234567891,126),(9567981011,127),(9510333213,128),
(9610121114,129), (8711131415,130), (7811141710,131), (9912151821,132), (81
13161922,133),(999999998,122),(8888888889,134),(7894561234,135);
insert into carrier c contact
```

```
8556157819,99),(8678167911,25),(7791177777,26),(9801189991,66),(9911192
832,68),(9101220910,77),(911314159,26),(8121314156,77);
insert into product
values(451,'Chocolates',1),(452,'Noodles',1),(455,'Laptops',2),(456,'Te
levision',2),(457,'Cars',3),(458,'Snacks',4),(459,'Cold
Drinks',5),(450,'Lotions',6),(453,'Serials',7),(461,'Cholcolates',8),(4
62, 'Cold Drinks', 9);
insert into orders
values(801, '2020-10-01', 1, 600, NULL, 1, 22, 111), (802, '2020-10-01', 2, 800, NU
LL,1,33,121),(803,'2020-10-02',5,1100,NULL,2,44,125),(804,'202<u>0-10-02',</u>
1,225, 'Glass packing,
Careful!',2,55,125),(805,'2020-10-03',1,350,NULL,3,99,127),(806,'2020-1
0-04',1,400,NULL,4,22,128),(807,'2020-10-05',1,500,NULL,5,33,111),(808,
'2020-10-06',1,600,NULL,6,44,121);
insert into items
values(211,0,500,60.12,801,451),(212,0,600,21.32,802,451),(213,1,1000,3
2.12,803,452),(214,1,200,45.55,804,452),(215,0,300,100,805,452),(216,1,
400,120.56,806,452),(217,0,500,62.21,807,455),(218,1,600,63.03,808,455)
,(219,1,100,51.56,801,456),(210,1,2000,53.89,802,457),(209,0,100,56.56,
NULL,458),(208,1,25,59.78,NULL,458),(207,1,50,32.91,NULL,461);
insert into appointment
values(991,'Rajesh',91,'ABC123','2020-10-01',1,9123456781,22,1),(992,'M
ahesh',92,'XYZ452','2020-10-01',1,9123567891,33,1),(993,'Suresh',93,'AB
C789','2020-10-02',1,9123171492,44,2),(994,'Girish',94,'ABC423','2020-1
0-02',1,9123281513,55,2),(995,'Ramesh',95,'XYZ956','2020-10-03',1,91233
91604,99,3),(996,'Zack',96,'LMN111','2020-10-04',1,9123512715,22,4),(99
8,'Rahul',97,'PQR234','2020-10-05',1,9123602816,33,5),(999,'Abdul',99,'
STU567', '2020-10-06',1,6123457891,44,6),(989,'Priyam',100,'LMN121','202
0-11-05',0,9234555555,22,1),(980,'Kedar',101,'ABC999','2020-11-06',-1,9
225678910,33,1);
```

Team contributions:

- 1. Sumukh Bhat
 - Wrote create table commands for 4 tables
 - Tables were
 - Orders
 - Product
 - Location
 - carrier_c_contact
 - Wrote insert commands for 4 tables
 - Worked for 5 hours

2. Shreyas VBKS

- Wrote create table commands for 3 tables
- Tables were
 - o Items
 - o Purchasing organization
 - purchasing_organization_po_contact
- Wrote insert commands for 4 tables
- Worked for 5 hours

3. Sowmya M

- Wrote create table commands for 4 tables
- Tables were
 - Appointment
 - Carrier
 - location_l_contact
 - o requests
- Wrote insert commands for 3 tables
- Worked for 4 hours