

# CSC 331

# PROJECT #2

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**Last 4 ID Digits:** 0609

**Date:** 13/04/2016

1. **Identify the most popular medication prescribed in Saint Louis in the last 3 YEARS. Display the drug name and number prescribed. Display one row for each drug. Order alphabetically by drug name.**

```
SELECT GENERIC_NAME, (SELECT COUNT(GENERIC_NAME)
FROM DRUGS
WHERE DRUG_ID IN(select DRUG_ID
from PRESCRIPTIONS
where PRESCRIPTION_DATE>'04-14-2013' AND PRESCRIPTION_DATE< '04-
15-2016' AND phar_id =(select phar_id
from Pharmacies
where phar_city ='Saint Louis' ))) AS COUNT
FROM DRUGS
WHERE DRUG_ID IN(select DRUG_ID
from PRESCRIPTIONS
where PRESCRIPTION_DATE>'04-14-2013' AND PRESCRIPTION_DATE< '04-
15-2016' AND phar_id =(select phar_id
from Pharmacies
where phar_city ='Saint Louis') GROUP BY DRUG_ID);
```

GENERIC_NAME	COUNT
Bacampicillin	5
Cloxacillin	5
Flucloxacillin	5
Penicillin V	5
Ampicillin	5

2. **Identify the medication history of NOLAN NORTON. Display the patient name, physician, drug, date of prescription and dosage. Order chronologically by date.**

```
SELECT
PA.PATIENT_FNAME,PA.PATIENT_LNAME,PR.PRE_FIRST,PR.PRE_LAST,D.GEN
ERIC_NAME, D.DOSAGE,PRES.PRESCRIPTION_DATE
FROM PRESCRIPTIONS PRES, PATIENT PA, PRESCRIBERS PR, DRUGS D
WHERE (PA.PATIENT_FNAME= 'Nolan' AND PA.PATIENT_LNAME='Norton') AND
PA.PATIENT_ID = PRES.PATIENT_ID AND D.DRUG_ID=PRES.DRUG_ID AND
PR.PRE_ID=PRES.PRE_ID
ORDER BY PRES.PRESCRIPTION_DATE;
```

PATIENT_FNAME	PATIENT_LNAME	PRE_FIRST	PRE_LAST	GENERIC_NAME	DOSAGE	PRESCRIPTION_D
Nolan	Norton	Carl	Farmer	Ampicillin	50 mg once daily	06/26/2015

- 3. Identify prescriptions affiliated with American Red Cross in the last 2 YEARS.  
Display the doctor name, organization, drug name, patient name and date.  
Order by doctor name, drug and patient name.**

```
SELECT PR.PRE_FIRST, PR.PRE_LAST, O.ORG_NAME, D.GENERIC_NAME,
PA.PATIENT_FNAME, PA.PATIENT_LNAME, PRES.PRESCRIPTION_DATE
FROM PRESCRIBERS PR, ORGANIZATION O, PRES_ORG PREORG, PATIENT PA,
PRESCRIPTIONS PRES, DRUGS D
WHERE PRES.PRE_ID=PR.PRE_ID AND PR.PRE_ID =PREORG.PRE_ID AND
O.ORG_ID=PREORG.ORG_ID AND O.ORG_NAME ='American Red Cross Motor
Corps' AND PRES.PATIENT_ID =PA.PATIENT_ID AND D.DRUG_ID
=PRES.DRUG_ID AND PRES.PRESCRIPTION_DATE>'04-14-2014' AND
PRES.PRESCRIPTION_DATE<'04-15-2016'
ORDER BY PR.PRE_FIRST, PA.PATIENT_FNAME,D.GENERIC_NAME;
```

PRE_FIRST	PRE_LAST	ORG_NAME	GENERIC_NAME	PATIENT_FNAME	PATIENT_LNAME	PRESCRIPTION_DATE
Andres	Pena	American Red Cross Motor Corps	Flucloxacillin	Alvin	Ortega	07/01/2015
Minnie	Drake	American Red Cross Motor Corps	Clarithromycin	Ulric	Raymond	07/12/2015

- 4. A doctor creates a new prescription for NOLAN NORTON. What SQL operations are required to create a new prescription**

```
SELECT *
FROM PATIENT
WHERE PATIENT_FNAME = 'Nolan' AND PATIENT_LNAME='Norton'
```

PATIENT_ID	PATIENT_FNAME	PATIENT_LNAME	PATIENT_PHONE	PATIENT_EMAIL	PATIENT_ADDRESS	PATIENT_CITY	PATIENT_ZIPCODE	PATIENT_STATE	PHARM_ID
4001	Nolan	Norton	1 (282) 954-5540	dignissim@uterosnon.net	"P.O. Box 660, 9749 Tincidunt Rd."	Owensboro	48495	KY	3001

```
SELECT *
FROM drugs
WHERE generic_name='Clarithromycin'
```

DRUG_ID	GENERIC_NAME	BRAND_NAME	DOSAGE
13017	Clarithromycin	Biaxin	300 mg per day

```
INSERT INTO PRESCRIPTIONS (PRESCRIPTION_ID, PRE_ID, PATIENT_ID,
PRESCRIPTION_DATE, DRUG_ID, PHAR_ID)
VALUES (PRESCRSEQ.NEXTVAL, 10000, 4001, '07/04/2016', 13017,3001)
```

PRESCRIPTION_ID	PRE_ID	PATIENT_ID	PRESCRIPTION_DATE	DRUG_ID	PHAR_ID
47030	10000	4001	07/04/2016	13017	3001

**5. Identify patients with an allergy to the medication prescribed. Display the patient name, drug, doctor name and doctor phone number**

```
SELECT PA.PATIENT_FNAME, PA.PATIENT_LNAME,
PR.PRE_FIRST,PR.PRE_LAST,T.PHONE, D.GENERIC_NAME
FROM PRESCRIPTIONS PRES, ALLERGY A, PATIENT PA, PRESCRIBERS PR,
DRUGS D, PRE_TELEPHONE T
WHERE PRES.PATIENT_ID = A.PATIENT_ID AND PRES.DRUG_ID=A.DRUG_ID
AND PRES.PATIENT_ID=PA.PATIENT_ID AND PRES.PRE_ID =PR.PRE_ID AND
PRES.DRUG_ID=D.DRUG_ID AND PRES.PRE_ID= T.PRE_ID
ORDER BY PA.PATIENT_ID
```

PATIENT_FNAME	PATIENT_LNAME	PRE_FIRST	PRE_LAST	PHONE	GENERIC_NAME
Jorden	Molina	Cecelia	White	202-555-0116	Amoxicillin
Nolan	Norton	Carl	Farmer	317-555-0156	Ampicillin
Nolan	Norton	Carl	Farmer	202-555-0136	Ampicillin
Anjolie	Yang	Candace	Mason	202-555-0122	Carbenicillin
Anjolie	Yang	Candace	Mason	202-555-0134	Carbenicillin
Anthony	Vasquez	Stephanie	Parker	202-555-0127	Dicloxacillin
Anthony	Vasquez	Stephanie	Parker	202-555-0166	Dicloxacillin
Alvin	Ortega	Andres	Pena	518-555-0199	Flucloxacillin

**6. Identify the prescriber who assigned the most Amoxicillin in the last 2 YEARS. Display the prescriber, license number, drug name and number of prescriptions. Display one row for each prescriber, license number and drug name. Display the prescriber and drug with the highest number first**

DRUG_ID	GENERIC_NAME	BRAND_NAME	DOSAGE
13000	Amoxicillin	Amoxil	10 or 15 mg/day

```
SELECT PRES.PRE_ID,COUNT(PRES.DRUG_ID) AS COUNT,
PR.PRE_FIRST,PR.PRE_LAST,PR.LICENSE, D.GENERIC_NAME
FROM PRESCRIBERS PR, PRESCRIPTIONS PRES, DRUGS D
WHERE PR.PRE_ID=PRES.PRE_ID AND PRES.DRUG_ID = D.DRUG_ID AND
D.GENERIC_NAME='Amoxicillin' AND PRES.PRESCRIPTION_DATE>'04-14-
2014' AND PRES.PRESCRIPTION_DATE<'04-15-2016'
```

GROUP BY PRES.PRE\_ID, PR.PRE\_FIRST,PR.PRE\_LAST,PR.LICENSE,  
D.GENERIC\_NAME  
ORDER BY 2 DESC

PRE_ID	COUNT	PRE_FIRST	PRE_LAST	LICENSE	GENERIC_NAME
10001	3	Carl	Farmer	L-839zkR6	Amoxicillin
10000	2	Cecelia	White	L-521jgR8	Amoxicillin

7. Identify patients with no allergies on file. Display the patient name and email. Used a nested select to answer this question

```
SELECT PATIENT_FNAME, PATIENT_LNAME ,PATIENT_EMAIL
FROM PATIENT
WHERE PATIENT_ID IN(SELECT PATIENT_ID
FROM ALLERGIES
WHERE DRUG_ID IS NULL);
```

PATIENT_FNAME	PATIENT_LNAME	PATIENT_EMAIL
Kenyon	Whitley	arcu@sedtortorInteger.edu
Seth	Olson	auctor.velit@mauris.edu
Jolie	Mccall	ultrices@nunc.edu
Jayme	Haney	ipsum.primis.in@utsemNulla.edu
Paloma	Stein	a.aliquet@semegetmassa.com

8. Identify patients with misspelled names – where the name on a new prescription doesn't match the name on a previously assigned prescription. Use other fields to identify this patient in the database. Display the patient name and address.

```
SELECT PA.PATIENT_FNAME, PA.PATIENT_LNAME, PA.PATIENT_EMAIL
FROM PATIENT PA, PRESCRIPTION PR
WHERE PA.PATIENT_ID = PR_PRESCRIPTION_ID AND
(LOWER(PA.PATIENT_FNAME) <> LOWER(PRES.PATIENT_FNAME) OR
(LOWER(PA.PATIENT_FLAST) <> LOWER(PRES.PATIENT_FNAME))
```

// THE DATABASE SHOULDN'T HAVE A PATIENT NAME IN THE PRESCRIPTION  
//TABLE AS THEY ARE SEARCHED BY THEIR NAME, LAST NAME OR ID IN THE  
PATIENT TABLE AND THEN THEIR ID WILL BE ADDED IN THE PRESCRIPTION  
TABLE WHERE IT SHOULD NOT BE MISSPELLING SINCE THEY WILL ALWAYS  
BE INTRODUCE BY THEIR ID RATHER THAN NAME IF I HAVE A PATIENT  
NAME COLUMN IN PRESCRIPTION IT WILL VIOLATE NORMALIZATION 2  
SINCE THAT COLUMN ITS NOT DEPENDABLE OF ITS PK (POSSIBLE  
APPROUCH IS METION ABOVE)

- 9. Identify pharmacies near NOLAN NORTON. Display the pharmacy name, address, city, state, zip code and phone number. Use a nested select to answer this question**

```
SELECT PHAR_NAME, PHAR_ADDRESS, PHAR_CITY, PHAR_ZIPCODE,
PHAR_STATE
FROM PHARMACIES
WHERE PHAR_ZIPCODE = (SELECT PATIENT_ZIPCODE
FROM PATIENT
WHERE LOWER(PATIENT_FNAME)=LOWER('NOLAN') AND
LOWER(PATIENT_LNAME)=LOWER('NORTON'))
```

PHAR_NAME	PHAR_ADDRESS	PHAR_CITY	PHAR_ZIPCODE	PHAR_STATE
Target	41-06 Angel BVL	Owensboro	48495	KY

- 10. Identify patients without a prescription in the last YEAR. Display patient name. Use a nested select to answer this question**

```
SELECT PATIENT_FNAME, PATIENT_LNAME
FROM PATIENT
WHERE PATIENT_ID NOT IN (SELECT PATIENT_ID
FROM PRESCRIPTIONS
WHERE PRESCRIPTION_DATE > '03/13/2015' AND PRESCRIPTION_DATE
<'03/14/2016')
```

PATIENT_FNAME	PATIENT_LNAME
Martena	Callahan
Jolie	Mccall
Gemma	Goodman
Jayme	Haney
Adria	Hansen
Karyn	Fry
Gage	Lowery
Octavius	Phelps
Magee	Stark

**11. Use the SQL DESCRIBE operation to list the table structure for all tables.****DESC PRESCRIBERS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PRESCRIBERS</u>	<u>PRE_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>PRE_FIRST</u>	VARCHAR2	15	-	-	-	✓	-	-
	<u>PRE_LAST</u>	VARCHAR2	15	-	-	-	✓	-	-
	<u>LICENSE</u>	VARCHAR2	30	-	-	-	-	-	-
	<u>STATE</u>	VARCHAR2	2	-	-	-	✓	-	-
	<u>ADDRESS</u>	VARCHAR2	60	-	-	-	✓	-	-
	<u>CITY</u>	VARCHAR2	15	-	-	-	✓	-	-
	<u>ZIPCODE</u>	VARCHAR2	5	-	-	-	✓	-	-

**DESC PRE\_TELEPHONE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PRE_TELEPHONE</u>	<u>PRE_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>PHONE</u>	VARCHAR2	20	-	-	-	✓	-	-

**DESC ORGANIZATION**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>ORGANIZATION</u>	<u>ORG_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>ORG_NAME</u>	VARCHAR2	60	-	-	-	✓	-	-
	<u>ORG_STATE</u>	VARCHAR2	2	-	-	-	✓	-	-
	<u>ORG_ADDRESS</u>	VARCHAR2	60	-	-	-	✓	-	-
	<u>ORG_CITY</u>	VARCHAR2	15	-	-	-	✓	-	-
	<u>ORG_ZIPCODE</u>	VARCHAR2	5	-	-	-	✓	-	-

## DESC PRES\_ORG

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PRES_ORG</u>	<u>PRES_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>ORG_ID</u>	NUMBER	22	-	-	-	✓	-	-

## DESC PHARMACIES

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PHARMACIES</u>	<u>PHAR_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>PHAR_NAME</u>	VARCHAR2	60	-	-	-	✓	-	-
	<u>PHAR_ADDRESS</u>	VARCHAR2	60	-	-	-	✓	-	-
	<u>PHAR_CITY</u>	VARCHAR2	20	-	-	-	✓	-	-
	<u>PHAR_ZIPCODE</u>	VARCHAR2	5	-	-	-	✓	-	-
	<u>PHAR_STATE</u>	VARCHAR2	2	-	-	-	✓	-	-

## DESC PATIENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PATIENT</u>	<u>PATIENT_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>PATIENT_FNAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>PATIENT_LNAME</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>PATIENT_PHONE</u>	VARCHAR2	30	-	-	-	✓	-	-
	<u>PATIENT_EMAIL</u>	VARCHAR2	70	-	-	-	✓	-	-



	<u>PATIENT_ADDRESS</u>	VARCHAR2	60	-	-	-	✓	-	-
	<u>PATIENT_CITY</u>	VARCHAR2	20	-	-	-	✓	-	-
	<u>PATIENT_ZIP_CODE</u>	VARCHAR2	5	-	-	-	✓	-	-
	<u>PATIENT_STATE</u>	VARCHAR2	2	-	-	-	✓	-	-
	<u>PHAR_ID</u>	NUMBER	22	-	-	-	✓	-	-

## DESC ALLERGIES

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>ALLERGIES</u>	<u>PATIENT_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>DRUG_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>COMMENTS</u>	VARCHAR2	30	-	-	-	✓	-	-

## DESC PRESCRIPTIONS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PRESCRIPTIONS</u>	<u>PRESCRIPTION_ID</u>	NUMBER	22	-	-	1	-	-	-
	<u>PRE_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>PATIENT_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>PRESCRIPTION_DATE</u>	DATE	7	-	-	-	-	-	-
	<u>DRUG_ID</u>	NUMBER	22	-	-	-	✓	-	-
	<u>PHAR_ID</u>	NUMBER	22	-	-	-	✓	-	-

## DESC DRUGS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>DRUGS</u>	<u>DRUG_ID</u>	NUMBER	22	-	-	1	-	-	-

<u>GENERIC_NAME</u>	VARCHAR2	40	-	-	-	✓	-	-
<u>BRAND_NAME</u>	VARCHAR2	40	-	-	-	✓	-	-
<u>DOSAGE</u>	VARCHAR2	60	-	-	-	-	-	-

```
CREATE TABLE PRESCRIBERS
(PRE_ID NUMBER PRIMARY KEY NOT NULL,
PRE_FIRST VARCHAR(30),
PRE_LAST VARCHAR(30),
LICENCE VARCHAR(30),
STATE VARCHAR(2),
ADDRESS VARCHAR(60),
CITY VARCHAR(30),
ZIPCODE VARCHAR(5));
```

```
INSERT INTO TABLE PRESCRIBERS (PRE_ID, PRE_FIRST, PRE_LAST, LICENSE,
STATE, ADDRESS, CITY, ZIPCODE)
VALUES (10000, 'Cecelia', 'White', 'L-521jgR8', 'mn', 'Ap #958-334 Mauris.
Av.', 'Rochester', '30696');
```

PRE_ID	PRE_FIRST	PRE_LAST	LICENSE	STATE	ADDRESS	CITY	ZIPCODE
10000	Cecelia	White	L-521jgR8	MN	Ap #958-334 Mauris. Av.	Rochester	30696
10001	Carl	Farmer	L-839zkR6	MO	"P.O. Box 150, 2752 Vel Avenue"	Columbia	35268
10002	Kerry	Hudson	L-292IIR1	TN	"P.O. Box 836, 6707 Interdum Av."	Clarksville	65190
10003	Candace	Mason	L-8866HR7	VA	Ap #508-1450 Nunc Rd.	Richmond	82913
10004	Winston	Shelton	L-651akR8	VA	Ap #146-1519 Lorem. Ave	Newport News	84581
10005	Stephanie	Parker	L-825tIR5	VA	Ap #898-3645 Nisi Ave	Chesapeake	52983

10006	Andres	Pena	L-657pkR1	UT	7669 Sed Street	Sandy	62716
10007	Jamie	Hall	L-194ntR9	CA	"P.O. Box 337, 3825 Penatibus Ave"	San Diego	96293
10008	Pedro	Potter	L-037sTR9	MA	"P.O. Box 317, 1254 Pede, Av."	Worcester	45391
10009	Marsha	Hamilton	L-794AKR3	KS	Ap #376-9035 Donec Road	Wichita	37510
10010	Tommy	Spencer	L-7029MR6	VT	"P.O. Box 706, 4887 Sem. Street"	Burlington	18330
10011	Alexandra	Turner	L-995teR5	NE	"955-635 Eget, St."	Bellevue	65756
10012	Horace	Porter	L-582RBR6	KS	"P.O. Box 562, 7130 Aliquam Ave"	Kansas City	99701
10013	Levi	Bowen	L-303IYR4	MS	Ap #325-7824 Nunc Rd.	Hattiesburg	96282
10014	Rebecca	Baker	L-675WBR9	WY	"P.O. Box 760, 7857 Mi. St."	Casper	56151
10015	Opal	Thornton	L-418KGR1	KS	Ap #472-9155 Nullam Street	Kansas City	49993
10016	Lauren	Richardson	L-351qhR5	TX	"P.O. Box 855, 6761 Tempus St."	Fort Worth	50693
10017	Minnie	Drake	L-906wvR4	WA	"P.O. Box 782, 8545 Porttitor Av."	Spokane	20790
10018	Laverne	Mcdonald	L-951hjR6	NV	"P.O. Box 620, 8691 Orci St."	Reno	38970
10019	Melanie	Keller	◆L-5929vR1	KY	"P.O. Box 597, 1315 Risus, Rd."	Frankfort	67885

```
CREATE TABLE PRE_TELEPHONE  
(PRE_ID NUMBER,  
PHONE VARCHAR(3),  
FOREIGN KEY(PRE_ID) references PRESCRIBERS(PRE_ID));
```

```
INSERT INTO PRE_TELEPHONE (PRE_ID, PHONE)  
VALUES(10000, '202-555-0116');
```

```
SELECT * FROM PRE_TELEPHONE
```

PRE_ID	PHONE
10000	202-555-0116
10001	202-555-0136
10002	202-555-0189
10003	202-555-0134
10004	202-555-0115
10005	202-555-0127
10006	518-555-0199
10007	518-555-0171
10008	518-555-0119
10009	518-555-0132
10010	518-555-0146
10011	518-555-0142
10012	617-555-0193
10013	617-555-0191
10014	617-555-0146
10015	617-555-0152
10016	617-555-0126
10017	617-555-0195
10018	803-555-0144
10019	803-555-0156
10010	803-555-0110
10011	803-555-0176
10012	803-555-0166
10013	803-555-0106
10016	317-555-0126
10017	317-555-0101
10018	317-555-0194
10019	317-555-0172

10001	317-555-0156
10002	317-555-0133
10003	202-555-0122
10004	202-555-0168
10005	202-555-0166
10006	202-555-0115
10007	202-555-0151
10008	202-555-0110
10009	404-555-0166

```
CREATE TABLE ORGANIZATION
(ORG_ID NUMBER PRIMARY KEY NOT NULL,
ORG_NAME VARCHAR(30),
ORG_STATE VARCHAR(2),
ORG_ADDRESS VARCHAR(60),
ORG_CITY VARCHAR(30),
ORG_ZIPCODE VARCHAR(5));
```

```
INSERT INTO ORGANIZATION
(ORG_ID,ORG_NAME,ORG_STATE,ORG_ADDRESS, ORG_CITY, ORG_ZIPCODE)
VALUES(5000,'AMERICAN RED CROSS', 'MA', 'P.O. Box 154, 3705 Sit
Ave', 'Worcester', '93499');
```

```
SELECT * FROM ORGANIZATION
```

ORG_ID	ORG_NAME	ORG_STATE	ORG_ADDRESS	ORG_CITY	ORG_ZIPCODE
5000	American Red Cross?	MA	"P.O. Box 154, 3705 Sit Ave"	Worcester	93499
5010	Health Physics Society?	KS	"P.O. Box 798, 3137 In Rd."	Kansas City	89356
5020	American Association for Cancer Research	MA	"Ap #108-8035 Posuere, St."	Springfield	13842
5030	American surgical organizations?	WI	122-9003 Ipsum St.	Green Bay	43959
5040	AirMed International	OH	677-2756 Vestibulum. Ave	Cincinnati	67510
5050	Accelerate Brain Cancer Cure	IA	3736 Pulvinar St.	Davenport	50491

5060	American Red Cross Nursing Service	WA	115-9632 Phasellus St.	Tacoma	28119
5070	American Red Cross Motor Corps	IN	Ap #671-1717 Adipiscing Av.	Fort Wayne	46835
5080	Surgeon General of the United States	CO	Ap #173-173 Dapibus St.	Fort Collins	50335
5090	American Council on Science and Health	KY	7632 Sapient. St.	Bowling Green	23416

```
CREATE TABLE PRES_ORG
(PRE_ID NUMBER,
ORG_ID NUMBER,
FOREIGN KEY(PRE_ID) references PRESCRIBERS(PRE_ID),
FOREIGN KEY(ORG_ID) references ORGANIZATION(ORG_ID));
```

```
INSERT INTO PRES_ORG (PRE_ID, ORG_ID)
VALUES(10000,5000)
```

```
SELECT * FROM preS_ORG
```

PRE_ID	ORG_ID
10000	5000
10001	5010
10002	5020
10003	5030
10004	5040
10005	5050
10006	5060
10007	5070
10008	5080
10009	5090
10010	5000
10011	5010
10012	5020
10013	5030
10014	5040
10015	5050

10016	5060
10017	5070
10018	5080
10019	5090
10000	5010
10001	5020
10002	5030
10003	5040
10004	5050
10005	5060
10006	5070
10007	5080
10010	5090

```
CREATE TABLE PHARMACIES
(PHAR_ID NUMBER PRIMARY KEY NOT NULL,
PHAR_NAME VARCHAR(30),
PHAR_ADDRESS VARCHAR(60),
PHAR_CITY VARCHAR(30),
PHAR_ZIPCODE VARCHAR(5),
PHAR_STATE VARCHAR(2));
```

```
INSERT INTO PHARMACIES(PHAR_ID,PHAR_NAME, PHAR_ADDRESS,
PHAR_CITY, PHAR_ZIPCODE, PHAR_STATE)
VALUES (3000, 'CVS Health corporation sales', 'P.O. Box 773, 6365 Scelerisque Road',
'Tucson', '85596', 'AZ');
```

```
SELECT * FROM PHARMACIES
```

PHAR_ID	PHAR_NAME	PHAR_ADDRESS	PHAR_CITY	PHAR_ZIPCODE	PHAR_STATE
3000	CVS Health corporation sales	"P.O. Box 773, 6365 Scelerisque Road"	Tucson	85596	AZ
3001	Walgreens	742-9798 Eget Street	Tuscaloosa	35748	AL
3002	Rite Aid stores	"P.O. Box 440, 4704 Parturient Av."	Saint Louis	75827	MO
3003	WALMART	"8760 Ornare, Street"	Bloomington	48769	MN
3004	Target	41-06 Angel BVLD	Owensboro	48495	KY

```
CREATE TABLE PATIENT
(PATIENT_ID NUMBER PRIMARY KEY NOT NULL,
PATIENT_FNAME VARCHAR(30),
PATIENT_LNAME VARCHAR(30),
PATIENT_EMAIL VARCHAR(60),
PATIENT_ADDRESS VARCHAR(50),
PATIENT_CITY VARCHAR(30),
PATIENT_ZIPCODE VARCHAR(5),
PATIENT_STATE VARCHAR(2),
PHAR_ID NUMBER,
FOREIGN KEY(PHAR_ID) references PHARMACIES(PHAR_ID))
```

```
INSERT INTO PATIENT(PATIENT_ID, PATIENT_FNAME, PATIENT_LNAME,
PATIENT_EMAIL, PATIENT_ADDRESS, PATIENT_CITY, PATIENT_ZIPCODE,
PATIENT_STATE, PHAR_ID)
VALUES(4000, 'Jorden', 'Molina', '1 (970) 435-6264',
'Integer.urna.Vivamus@adipiscing.com', '4858 Mollis. Avenue', 'Omaha', '92039', 'NE',
3000);
```

```
SELECT * FROM PATIENT
```

PATIENT_ID	PATIENT_FNAME	PATIENT_LNAME	PATIENT_PHONE	PATIENT_EMAIL	PATIENT_ADDRESS	PATIENT_CITY	PATIENT_ZIPCODE	PATIENT_STATE	PHAR_ID
4000	Jorden	Molina	1 (970) 435-6264	Integer.urna.Vivamus@adipiscing.com	4858 Mollis. Avenue	Omaha	92039	NE	3000
4001	Nolan	Norton	1 (282) 954-5540	dignissim@uterosnon.net	"P.O. Box 660, 9749 Tincidunt Rd."	Owensboro	48495	KY	3001
4002	Kenyon	Whitley	1 (716) 547-0280	arcu@sedtortorlnteger.edu	"P.O. Box 530, 4180 Quam. Road"	Orlando	43949	FL	3002
4003	Anjolie	Yang	1 (445) 156-0180	pellentesque@nuncest.net	"P.O. Box 801, 1122 Nunc Rd."	Madison	89719	WI	3003



4004	Seth	Olson	1 (440) 424- 6618	auctor.velit@ma uris.edu	"P.O. Box 384, 1674 Quisque St."	Gaith ersbu rg	58553	MD	30 00
4006	Alvin	Ortega	1 (146) 423- 7753	Aliquam@animS ed.edu	"6270 Eget, Rd."	Chey enne	82837	WY	30 02
4007	Marten a	Callah an	1 (455) 427- 2116	lacus.Aliquam.ru trum@metus.ca	911- 7862 Cras Rd.	Colu mbus	58235	OH	30 03
4008	Jolie	Mccall	1 (142) 315- 0336	ultrices@nunc.e du	5505 Auctor St.	Hend erson	92781	NV	30 00
4009	Gemm a	Good man	1 (293) 247- 8767	enim.commodo. hendrerit@Cura e.org	4759 Conseq uat Road	Jacks on	32545	MS	30 01
4010	Jayme	Haney	1 (856) 664- 5542	ipsum.primis.in @utsemNulla.ed u	Ap #256- 7915 Luctus Av.	Sprin gfield	27232	MO	30 02
4011	Adria	Hanse n	1 (213) 600- 3175	Duis.elementum. dui@gravida.ca	8063 Vestibul um Av.	Belle vue	93966	WA	30 03
4012	Wynte r	Snyde r	1 (450) 319- 8174	vel.arcu.eu@ege stasblandit.net	"P.O. Box 607, 6437 Integer Av."	June au	99745	AK	30 00
4013	Blythe	Spenc er	1 (214) 357- 9467	vitae.dolor@mon tes.org	4779 Morbi St.	Colle ge	99503	AK	30 01
4014	Karyn	Fry	1 (397) 693- 6681	Curabitur.sed.tor tor@lorem.co.uk	623- 6649 Velit Ave	Lawto n	85129	OK	30 02
4015	Gage	Lower y	1 (532) 343- 8733	luctus@etultrice sposuere.org	"347- 8082 Tellus, Rd."	Colu mbia	31936	MD	30 03
4016	Octavi us	Phelps	1 (539) 262- 6204	diam.nunc@Mau ris.org	8608 Etiam Av.	Tusc aloos a	36108	AL	30 00

4017	Ulric	Raymond	1 (976) 752-0894	massa@semper.edu	Ap #500-5540 Praesent Av.	Kansas City	80222	KS	3001
4018	Kaseem	Conrad	1 (520) 213-2100	vel@Aeneanegest.net	Ap #650-5175 Lectus St.	Bloomington	93754	MN	3002
4020	Paloma	Stein	1 (685) 194-7663	a.aliquet@semetgetmassa.com	"956-4576 Ac, St."	Gaithersburg	23266	MD	3000
4021	Blossom	Taylor	1 (508) 386-3601	vel.nisl.Quisque@inaliquet.edu	9023 Nam St.	Worcester	31270	MA	3001
4022	Wanda	Bowers	1 (548) 473-6580	consequat.lectus.sit@lacus.net	7315 Luctus Avenue	Aurora	50955	CO	3002
4023	Olivia	Head	1 (377) 895-3722	Nam.interdum.enim@lacinia.org	"P.O. Box 432, 970 Fusce Av."	Naperville	77549	IL	3003
4024	Rose	Wilson	1 (563) 715-9832	elit@maurissapien.com	Ap #946-9037 Ipsum Ave	Eugene	11394	OR	3001
4005	Anthony	Vasquez	1 (892) 648-3653	mi.Aliquam.gravida@portitortscelerisque.com	970-9386 Nulla Rd.	Springfield	12788	MA	3001
4019	Magee	Stark	1 (792) 745-8095	consequat.dolor@mollisIntegertincidunt.co.uk	192-8687 Eget St.	Atlanta	78948	GA	3003

```
CREATE TABLE PRESCRIPTIONS
(PRESCRIPTION_ID NUMBER PRIMARY KEY NOT NULL,
PRE_ID NUMBER,
PATIENT_ID NUMBER,
PRESCRIPTION_DATE DATE,
DRUG_ID NUMBER,
PHAR_ID NUMBER,
FOREIGN KEY(PRE_ID) references PRESCRIBERS(PRE_ID),
FOREIGN KEY(PATIENT_ID) references PATIENT(PATIENT_ID),
FOREIGN KEY(DRUG_ID) references DRUGS(DRUG_ID),
FOREIGN KEY(PHAR_ID) references PHARMACIES(PHAR_ID));
```

```
INSERT INTO PRESCRIPTIONS (PRESCRIPTION_ID, PRE_ID, PATIENT_ID,
PRESCRIPTION_DATE , DRUG_ID, PHAR_ID)
VALUES( 47000, 10000, 4000 , '06/25/2015', 13000,3000);
```

```
SELECT * FROM PRESCRIPTIONS
```

PRESCRIPTION_ID	PRE_ID	PATIENT_ID	PRESCRIPTION_DATE	DRUG_ID	PHAR_ID
47000	10000	4000	06/25/2015	13000	3000
47001	10001	4001	06/26/2015	13001	3001
47002	10002	4002	06/27/2015	13002	3002
47003	10003	4003	06/28/2015	13003	3003
47004	10004	4004	06/29/2015	13004	3000
47005	10005	4005	06/30/2015	13005	3001
47006	10006	4006	07/01/2015	13006	3002
47007	10007	4007	07/02/2013	13007	3003
47008	10008	4008	07/03/2013	13008	3000
47009	10009	4009	07/04/2013	13009	3001
47010	10010	4010	07/05/2013	13010	3002
47011	10011	4011	07/06/2013	13011	3003
47012	10012	4012	07/07/2015	13012	3000
47013	10013	4013	07/08/2015	13013	3001
47014	10014	4014	07/09/1995	13014	3002
47015	10015	4015	07/10/1995	13015	3003
47016	10016	4016	07/11/1995	13016	3002
47017	10017	4017	07/12/2015	13017	3003
47018	10018	4018	07/13/2015	13018	3000
47019	10019	4019	07/14/1990	13019	3000

47020	10000	4020	07/15/2015	13000	3001
47021	10001	4021	07/16/2015	13001	3002
47022	10002	4022	07/17/2015	13002	3000
47023	10003	4023	07/18/2015	13003	3001
47024	10004	4024	07/19/2015	13004	3002
47025	10005	4006	07/20/2015	13005	3003
47026	10006	4007	07/21/2001	13006	3000
47027	10007	4008	07/22/2001	13007	3001
47028	10008	4009	07/23/2001	13008	3002
47029	10009	4010	07/24/2001	13013	3003
47031	10001	4005	07/04/2016	13000	3001
47032	10001	4005	03/04/2016	13000	3001
47033	10001	4005	01/04/2016	13000	3001
47030	10000	4001	07/04/2016	13017	3001

```
CREATE TABLE DRUGS
(DRUG_ID NUMBER PRIMARY KEY NOT NULL,
GENERIC_NAME VARCHAR(30),
BRAND_NAME VARCHAR(30),
DOSAGE VARCHAR(30));
```

```
INSERT INTO DRUGS( DRUG_ID, GENERIC_NAME, BRAND_NAME, DOSAGE)
VALUES(13000, 'Amoxicillin', 'Amoxil' , '10 or 15 mg/day');
```

```
SELECT * FROM DRUGS
```

DRUG_ID	GENERIC_NAME	BRAND_NAME	DOSAGE
13000	Amoxicillin	Amoxil	10 or 15 mg/day
13001	Ampicillin	Omnipen	50 mg once daily
13002	Bacampicillin	Spectrobid	50 mg to 400 mg
13003	Carbenicillin	Geocillin	300 mg per day
13004	Cloxacillin	Cloxapen	50 mg once daily
13005	Dicloxacillin	Dynapen	20 mg twice daily
13006	Flucloxacillin	Flopen	25 mg once daily
13007	Mezlocillin	Mezlin	10 or 15 mg/day
13008	Nafcillin	Nafcil	20 mg twice daily
13009	Oxacillin	Bactocill	10 or 15 mg/day
13010	Penicillin V	Beepen-VK	50 mg once daily

13011	Piperacillin	Pipracil	300 mg per day
13012	Pivampicillin	-	10 or 15 mg/day
13013	Pivmecillinam	-	50 mg once daily
13014	Ticarcillin	Ticar	20 mg twice daily
13015	Azithromycin	Zithromax	20 mg twice daily
13016	Erythromycin	-	25 mg once daily
13017	Clarithromycin	Biaxin	300 mg per day
13018	Dirithromycin	Dynabac	50 mg once daily
13019	Roxithromycin	"Rulid, Surlid"	20 mg twice daily

```
CREATE TABLE ALLERGIES
(PATIENT_ID NUMBER,
DRUG_ID NUMBER,
COMMENTS VARCHAR(30),
foreign key(PATIENT_ID) references PATIENT(PATIENT_ID),
foreign key(DRUG_ID) references DRUGS(DRUG_ID));
```

```
SELECT *
FROM ALLERGIES
```

PATIENT_ID	DRUG_ID	COMMENTS
4000	13000	-
4001	13001	-
4002	-	NONE
4003	13003	-
4004	-	NONE
4005	13005	-
4006	13006	-
4007	13007	-
4008	-	NONE
4009	13009	-
4010	-	NONE
4011	13011	-
4012	13012	-
4013	13013	-
4014	13004	-
4015	13015	-

4016	13016	-
4017	13017	-
4018	13018	-
4019	13019	-
4020	-	NONE
4021	13001	-
4022	13002	-
4023	13003	-
4024	13004	-
4013	13005	-
4014	13006	-
4015	13018	-
4016	13008	-
4017	13009	-
4018	13010	-
4019	13018	-