Rafael Carmilema CS 331 23/05/2016 Project # 3

CSC 331 PROJECT #3

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Last 4 ID Digits: 0609

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1. Identify the medication history of Aquila Todd. Display the patient name, parent names, physician, drug, date of prescription and dosage. Order chronologically by date.

SELECT C.CH_FNAME, C.CH_LNAME, G.G_FNAME, G_LNAME, P.STAFF_FNAME, P.STAFF_LNAME, D.GENERIC_NAME, PRES.PRESCRIPTION_DATE, D.DOSAGEFROM PRESCRIPTIONS PRES, CHILD_PATIENT C, GUARDIAN G, PHAR_STAFF P, DRUGS D, GUAR_CHIL GC

WHERE (C.CH_FNAME = 'Aquila' AND C.CH_LNAME = 'Todd') AND DPRES.CH_ID = C.CH_ID AND P.STAFF_ID = PRES.STAFF_ID AND GC.CH_ID = PRES.CH_ID AND D.DRUG_ID = PRES.DRUG_ID

ORDER BY PRES.PRESCRIPTION_DATE

CH_FNAME	CH_LNAM E	STAFF_FNAME	STAFF_LNAME	PRESCRIPTIO	N G_FNAME	G_LNAME	GENERIC_NA
Aquila	Iodd	Carl	Earmer	6/25/2015	Len	Buttler	Ampicillin
Aquila	Todd	Carl	Earmer	6/26/2014	Len	Buttler	Ampicillin

2. Identify child patients without parents in the database. Display the child patient name. Use a nested select to answer this question.

SELECT CH_FNAME, CH_LNAME FROM CHILD_PATIENT WHERE CH_ID NOT IN (SELECT CH_ID FROM GUAR CHILD

PATIENT_FNAME	PATIENT_LNAME
Martena	Callahan
Jolie	Mccall

3. Identify pharmacy staff that dispensed the most prescriptions in the last year. Display the pharmacy staff name, store address and number of medications. Display one row for each pharmacy staff. The staff with the most medications will be displayed first. Use a nested select to answer this question.

4. Identify pharmacies with more than three staff. Display the store name and number of staff. Display one row for each store. The store with the most staff will be displayed first.

SELECT P.PHAR_NAME, COUNT(P.PHAR_ID) AS "EMPLOYEES" FROM PHARMACIES P, PHAR_STAFF PS
WHERE PS.PHAR_ID = P.PHAR_ID
GROUP BY P.PHAR_NAME
ORDER BY 2 DESC

PHAR_NAME	EMPL OYEE S
CVS Health corporation sales	3
Walgreens	1
Rite Aid stores	1
WALMART	3
Target	1

5. Identify stores with the most sales in 2016. Display one row for each store. Display the store address, city, total revenue, smallest sale and largest sale. Use functions to answer this question. The store with the highest revenue will display first.

SELECT P.PHAR_ADDRESS, P.PHAR_CITY, SUM(PRICE) AS "TOTAL", MAX(PRICE), MIN(PRICE) FROM PHARMACIES P, DRUGS D, PRESCRIPTIONS PRES
WHERE D.DRUG_ID = PRES.DRUG_ID AND P.PHAR_ID = PRES.PHAR_ID
GROUP BY P.PHAR_ADDRESS, P.PHAR_CITY
ORDER BY 3 DESC

PHAR_ADDRESS	PHAR_CITY	TOTAL	MAX(PRICE)	MIN(PRICE)
P.O. Box 773, 6365 Scelerisque Road	Tucson	132	50	12

742-9798 Eget Street	Tuscaloosa	520	250	25
P.O. Box 440, 4704 Parturient Av.	Saint Louis	520	100	20
8760 Ornare, Street	Bloomington	320	200	30
41-06 Angel BVLD	Owensboro	100	100	100

6. Increase the price of Oxacillin by 70 % at all stores. Identify the SQL commands to perform this operation.

UPDATE TABLE DRUGS

SET PRICE = PRICE +PRICE *.70

WHERE GENERIC_NAME = 'Oxacillin'

7. The pharmacist doesn't know how to spell a drug name, but the first few letters are pip. Identify all drugs with a similar spelling. Display the brand name, generic name and dosage.

SELECT BRAND_NAME, GENERIC_NAME, DOSAGE FROM DRUGS
WHERE GENERIC_NAME LIKE 'PIP%'

BRAND_NAME	GENERIC_NAME	DOSAGE
Piperacillin	Pipracil	300 mg per day

8. The drug Piperacillin will no longer be sold at all stores. What is the best process to implement. Identify the SQL commands to perform this operation.

ALTER TABLE DRUGS ADD STATUS VARCHAR(10)

UPDATE TABLE DRUGS
SET STATUS = 'INACTIVE'
WHERE GENERIC_NAME = 'Piperacillin'

9. In one SQL window, change the staff salary for record 1. Don't commit. In another SQL window, change the staff salary for record 1. Don't commit. Resolve the problem. Disable the auto commit flag at the top of the windows before performing this operation. Explain your results

There must be a commit since in one window has exclusive access to the row therefor in order to fix this by doing a commit it will release the write lock in that row

10. In one SQL window, delete all drugs. Don't commit. In another SQL window, increase the price of all drugs by 5%. Don't commit. Explain your results. Resolve the problem. Create a backup of your table before implementing. To create a backup table, enter CREATE TABLE AS SELECT * FROM; COMMIT; Then you can rename a table using the RENAME TABLE commit. Disable the auto commit flag at the top of the windows before performing this operation

Since the first window made the changes in the data the whole table has exclusive access. If commit then the second session is allow acces to the table. The solution for this we delete in one window or update in the other but cant do both

11. In one SQL window, null all patient addresses. Don't commit. In another SQL window, null all patient allergies. Don't commit. Quit both Oracle sessions. Login to Oracle and search for this information. Explain your results. Disable the auto commit flag at the top of the windows before performing this operation.

The data will be there since the sessions didn't end and we didn't commit therefore the data is not affected

12. Use the SQL DESCRIBE operation to list the table structure for all tables.

DESC PRESCRIPTIONS

Table	Column	Data Type	Len gth	Preci sion	Sc ale	Primary Key	Nulla ble	Defa ult	Com ment
PRESCRIP TIONS	PRESCRIPTIO N ID	NUMB ER	22	-	-	1	-	-	-
	PRE ID	NUMB ER	22	-	-	-	~	-	-
	PATIENT_ID	NUMB ER	22	-	-	-	/	-	-

PRESCRIPTIO N DATE	DATE	7	-	-	-	-	-	-
DRUG ID	NUMB ER	22	-	-	-	~	-	-
PHAR_ID	NUMB ER	22	-	-	-	~	-	-
STAFF_ID	NUMB ER	22	-	-	-	~	-	-
CH_ID	NUMB ER	22	-	-	-	~	-	-

desc DRUGS

Table	Column	Data Type	Leng th	Precisi on	Sca le	Primary Key	Nulla ble	Defa ult	Comm ent
DRU GS	DRUG ID	NUMBE R	22	-	-	1	-	-	-
	GENERIC N AME	VARCH AR2	40	-	-	-	~	-	-
	BRAND NA ME	VARCH AR2	40	-	-	-	~	-	-
	DOSAGE	VARCH AR2	60	-	-	-	-	-	-
	PRICE	NUMBE R	22	-	-	-	~	-	-

CREATE TABLE CHILD_PATIENT
(CH_ID NUMBER PRIMARY KEY NOT NULL,
CH_FNAME VARCHAR(15),
CH_LNAME VARCHAR(15),
CH_EMAIL VARCHAR(60),
CH_ADDRESS VARCHAR(50),
CH_CITY VARCHAR(30),
CH_ZIPCODE VARCHAR(5),
CH_STATE VARCHAR(2),

PHAR_ID NUMBER, FOREIGN KEY(PHAR_ID) references PHARMACIES(PHAR_ID)

Table	Column	Data Type	Len gth	Precis ion	Sca le	Primary Key	Nulla ble	Defa ult	Comm ent
CHILD_PA TIENT	CH ID	NUMBE R	22	-	-	1	-	-	-
	CH_FNA ME	VARCH AR2	15	-	-	-	~	-	-
	CH_LNAM E	VARCH AR2	15	-	-	-	~	-	-
	CH_EMAI L	VARCH AR2	60	-	-	-	~	-	-
	CH_ADD RESS	VARCH AR2	50	-	-	-	~	-	-
	CH CITY	VARCH AR2	30	-	-	-	~	-	-
	CH_ZIPC ODE	VARCH AR2	5	-	-	-	~	-	-
	CH STAT E	VARCH AR2	2	-	-	-	~	-	-
	PHAR_ID	NUMBE R	22	-	-	-	~	-	-

CREATE TABLE GUAR_CHILD
(G_ID NUMBER,
CH_ID NUMBER,
FOREIGN KEY(G_ID) REFERENCES GUARDIAN(G_ID),
FOREIGN KEY(CH_ID) REFERENCES CHILD_PATIENT(CH_ID));

Table	Colu	Data	Leng	Precisi	Sca	Primary	Nulla	Defa	Comm
	mn	Type	th	on	le	Key	ble	ult	ent
GUAR CH ILD	G_ID	NUMBE R	22	-	-	-	~	-	-

<u>CH_I</u> NUMBE <u>D</u> R

CREATE TABLE GUARDIAN

(G_ID NUMBER PRIMARY KEY NOT NULL,

G_FNAME VARCHAR(15),

G_LNAME VARCHAR(15),

G_EMAIL VARCHAR(60),

G_ADDRESS VARCHAR(50),

G_CITY VARCHAR(30),

G_ZIPCODE VARCHAR(5),

G_STATE VARCHAR(2),

G_PHONE CHAR(10))

Table	Column	Data Type	Leng th	Precisi on	Sca le	Primary Key	Nulla ble	Defa ult	Comm ent
GUARDI AN	G_ID	NUMBE R	22	-	-	1	-	-	-
	G FNAM E	VARCH AR2	15	-	-	-	~	-	-
	G LNAM E	VARCH AR2	15	-	-	-	~	-	-
	G EMAIL	VARCH AR2	60	-	-	-	~	-	-
	G_ADDR ESS	VARCH AR2	50	-	-	-	~	-	-
	G CITY	VARCH AR2	30	-	-	-	~	-	-
	G_ZIPCO DE	VARCH AR2	5	-	-	-	~	-	-
	G STATE	VARCH AR2	2	-	-	-	~	-	-
	G_PHON E	CHAR	10	-	-	-	/	-	-

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CREATE TABLE PHAR_STAFF
(STAFF_ID NUMBER PRIMARY KEY NOT NULL,
STAFF_FNAME VARCHAR(15),
STAFF_LNAME VARCHAR(15),
STAFF_EMAIL VARCHAR(60),
STAFF_ADDRESS VARCHAR(50),
STAFF_CITY VARCHAR(30),
STAFF_ZIPCODE VARCHAR(5),
STAFF_STATE VARCHAR(2),
STAFF_HIREDATE DATE,
STAFF_TITLE VARCHAR(30),
STAFF_SALARY DECIMAL(7,2),
PHAR_ID NUMBER,
FOREIGN KEY(PHAR_ID) references PHARMACIES(PHAR_ID))

Table	Column	Data Type	Len gth	Precis ion	Sca le	Primary Key	Nulla ble	Defa ult	Comm ent
PHAR_S TAFF	STAFF ID	NUMBE R	22	-	-	1	-	-	-
	STAFF_FNA ME	VARCH AR2	15	-	-	-	~	-	-
	STAFF_LNA ME	VARCH AR2	15	-	-	-	~	-	-
	STAFF EMA IL	VARCH AR2	60	-	-	-	~	-	-
	STAFF ADD RESS	VARCH AR2	50	-	-	-	~	-	-
	STAFF CITY	VARCH AR2	30	-	-	-	~	-	-
	STAFF ZIPC ODE	VARCH AR2	5	-	-	-	~	-	-
	STAFF STA TE	VARCH AR2	2	-	-	-	✓	-	-
	STAFF_HIR EDATE	DATE	7	-	-	-	~	-	-

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STAFF_TITL E	VARCH AR2	30	-	-	-	~	-	-
STAFF SAL ARY	NUMBE R	-	7	2	-	~	-	-
PHAR_ID	NUMBE R	22	-	-	-	~	-	-