Group: 332 Titans
Austin Hoang
Calvin Nguyen
Loc Nguyen

Number 1: Creation of database provided in DoctorOffice.sql. Entire website is the VIEW.
Number 2: **Finding the names and phone numbers of all of Rob's patients and viewing them onto the website.**
SELECT PERSON.FirstName, PERSON.LastName, PATIENT.PhoneNumber
FROM DOCTOR
INNER JOIN PATIENTVISIT ON PATIENTVISIT.DoctorID = DOCTOR.DoctorID
INNER JOIN PATIENT ON PATIENT.PatientID = PATIENTVISIT.PatientID
INNER JOIN PERSON ON PERSON.PersonID = PATIENT.PersonID
WHERE DOCTOR.FirstName = 'Ron' AND DOCTOR.LastName = 'Belkin';

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FIRST NAME	LAST NAME	PHONE NUMBER
CALVIN	NGUYEN	011-999-9999
JOHN	SMITH	111-999-8888
MARIA	LOPEZ	222-888-9999
ALLISON	NGUYEN	333-777-6666
CHARLES	TUNSTON	444-666-6666
TIM	DAGETTO	555-111-2222
LINH	NGUYEN	666-333-4444
STEVE	WILSON	777-111-3333
SUE	SAN	888-222-4444
MARY	JOHNSON	999-555-1111

Number 3: **Retrieving the first and last names of doctors who gave our a prescription for Panadol.**

SELECT DISTINCT A.FirstName, A.LastName
FROM PERSON A
INNER JOIN DOCTOR D ON A.personID = D.personID
INNER JOIN PATIENTVISIT V ON D.DoctorID = V.DoctorID
INNER JOIN PVISITPRESCRIPTION P ON V.VisitID = P.VisitID
INNER JOIN PRESCRIPTION R ON P.PrescriptionID = R.PrescriptionID
WHERE R.PrescriptionName = 'Panadol';

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DOCTOR FIRST NAME	LAST NAME	PRESCRIPTION NAME
CALVIN	NGUYEN	Panadol
AUSTIN	HOANG	Panadol
ROB	BELKIN	Panadol

Number 4: **Retrieving the first name, last name and specialties of all doctors.**

SELECT DISTINCT P.FirstName, P.LastName, S.SpecialtyName
FROM PERSON P
INNER JOIN DOCTOR D ON P.personID = D.PersonID
INNER JOIN DOCTORSPECIALTY H ON D.DoctorID = H.DoctorID

INNER JOIN SPECIALTY S ON H.SpecialtyID = S.SpecialtyID;

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FIRST NAME	LAST NAME	DOCTOR SPECIALTY
LOC	NGUYEN	Family medicine
LOC	NGUYEN	Pediatrics
AUSTIN	HOANG	Anesthesiology
AUSTIN	HOANG	Neurology
ROB	BELKIN	Family medicine
ROB	BELKIN	Internal medicine

Number 5: **Retrieving first names, last names and specialties of all doctors INCLUDING ones without a specialty (will be empty).**
SELECT DISTINCT P.FirstName, P.LastName, S.SpecialtyName
FROM PERSON P
INNER JOIN DOCTOR D ON P.personID = D.PersonID
LEFT OUTER JOIN DOCTORSPECIALTY H ON D.DoctorID = H.DoctorID
LEFT OUTER JOIN SPECIALTY S ON H.SpecialtyID = S.SpecialtyID;

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FIRST NAME	LAST NAME	DOCTOR SPECIALTY
CALVIN	NGUYEN	
LOC	NGUYEN	Family medicine
LOC	NGUYEN	Pediatrics
AUSTIN	HOANG	Anesthesiology
AUSTIN	HOANG	Neurology
ROB	BELKIN	Family medicine
ROB	BELKIN	Internal medicine

Number 6: **Creating both insert and update triggers on DoctorSpecilty to update specialtyAudit table each time an insert or an update occurs.**
DROP TRIGGER IF EXISTS insert_specialty;
DELIMITER $$
CREATE TRIGGER insert_specialty
AFTER INSERT ON DoctorSpecialty
FOR EACH ROW
BEGIN

```sql
        INSERT INTO `specialtyAudit` (`FirstName`, `Action`, `SpecialtyName`,
`DateModified`)
    VALUES ((SELECT FirstName FROM PERSON
                        WHERE PersonID in (SELECT PersonID FROM DOCTOR
                                            WHERE DoctorID = NEW.DoctorID)),
"Insert",
                (SELECT SpecialtyName FROM SPECIALTY
        WHERE SpecialtyID in (SELECT SpecialtyID FROM DOCTORSPECIALTY
                                            WHERE SpecialtyID =
NEW.SpecialtyID)), current_timestamp());
END $$
DELIMITER ;

DROP TRIGGER IF EXISTS update_specialty;
DELIMITER $$
CREATE TRIGGER update_specialty
AFTER UPDATE ON DoctorSpecialty
FOR EACH ROW
BEGIN
        INSERT INTO `specialtyAudit` (`FirstName`, `Action`, `SpecialtyName`,
`DateModified`)
    VALUES ((SELECT FirstName FROM PERSON
                        WHERE PersonID in (SELECT PersonID FROM DOCTOR
                                            WHERE DoctorID = NEW.DoctorID)),
"Update",
                (SELECT SpecialtyName FROM SPECIALTY
                 WHERE SpecialtyID in (SELECT SpecialtyID FROM
DOCTORSPECIALTY
                                                WHERE SpecialtyID =
NEW.SpecialtyID)), current_timestamp());
END $$
DELIMITER ;
SELECT * SPECIALTYAUDIT;
```

Result Grid | Filter Rows: [Search] | Edit: | Export/Import: | | Result Grid

FirstName	SpecialtyName	Action	DateModifi...
CALVIN	Anesthesiology	Insert	2019-12-08
ROB	Anesthesiology	Insert	2019-12-08
ROB	Internal medicine	Update	2019-12-08
ROB	Neurology	Update	2019-12-08