

# Data & Information Management

## Assignment 7.2C

1. Write SQL statements to create all tables in the final normalized ERD in Task 4.2C.

### NURSE TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE NURSE( NURSE_ID INT PRIMARY KEY, F_NAME VARCHAR(50) NOT NULL, L_NAME VARCHAR(50) NOT NULL, PHONE_NUMBER INT(10) NOT NULL, EMAIL VARCHAR(100) );
```

### DOCTOR TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE DOCTOR ( DOCTOR_ID INT PRIMARY KEY, F_NAME VARCHAR(50) NOT NULL, L_NAME VARCHAR(50) NOT NULL, PHONR_NUMBER INT(10) NOT NULL, SPECIALIZED_AREA VARCHAR(50) NOT NULL, EMAIL VARCHAR(100) );
```

### PATIENT TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE PATIENT ( PATIENT_NUM INT PRIMARY KEY, F_NAME VARCHAR(50) NOT NULL, L_NAME VARCHAR(50) NOT NULL, DOB VARCHAR(10) NOT NULL, GENDER VARCHAR(6), PHONE_NUMBER INT(10) NOT NULL, ADDRESS VARCHAR(200) );
```

### APPOINTMENT\_LINK TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE APPOINTMENT_LINK ( APPOINTMENT_ID INT NOT NULL, PATIENT_NUM INT NOT NULL, DOCTOR_ID INT NOT NULL, NURSE_ID INT NOT NULL, RECORD_ID INT NOT NULL, PRIMARY KEY(APPOINTMENT_ID,PATIENT_NUM), FOREIGN KEY(APPOINTMENT_ID) REFERENCES appointment_details(APPOINTMENT_ID), FOREIGN KEY(PATIENT_NUM) REFERENCES patient(PATIENT_NUM), FOREIGN KEY(DOCTOR_ID) REFERENCES doctor(DOCTOR_ID), FOREIGN KEY(NURSE_ID) REFERENCES nurse(NURSE_ID), FOREIGN KEY(RECORD_ID) REFERENCES medical_record(RECORD_ID) );
```

### APPOINTMENT\_DETAILS TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE APPOINTMENT_DETAILS ( APPOINTMENT_ID INT PRIMARY KEY, APPOINEMENT_DATE DATE NOT NULL, APPOINTMENT_TIME TIME NOT NULL );
```

### MEDICAL\_RECORD TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE MEDICAL_RECORD ( RECORD_ID INT PRIMARY KEY, DATE VARCHAR(10) NOT NULL, TREATEMENT VARCHAR(200), DESCRIPTION VARCHAR(500), PATIENT_NUM INT NOT NULL, DOCTOR_ID INT NOT NULL, FOREIGN KEY(PATIENT_NUM) REFERENCES PATIENT(PATIENT_NUM), FOREIGN KEY(DOCTOR_ID) REFERENCES DOCTOR(DOCTOR_ID) );
```

## LABORATORY\_TEST TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE LABORATORY_TEST ( LAB_NUM INT PRIMARY KEY, TEST_NAME VARCHAR(100), DATE VARCHAR(10), REPORT VARCHAR(1000), RECORD_ID INT NOT NULL, FOREIGN KEY(RECORD_ID) REFERENCES medical_record(RECORD_ID) );
```

## PRESCRIPTION TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE PRESCRIPTION ( PRESCRIPTION_NUM INT PRIMARY KEY, NAME VARCHAR(100), DATE VARCHAR(10), RECORD_ID INT NOT NULL, DRUG_ID INT NOT NULL, FOREIGN KEY(RECORD_ID) REFERENCES medical_record(RECORD_ID), FOREIGN KEY(DRUG_ID) REFERENCES drugs(DRUG_ID) );
```

## EQUIPMENT TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE EQUIPMENT ( EQUIPMENT_NUM INT PRIMARY KEY, EQUIPMENT_NAME VARCHAR(100), LAB_NUM INT NOT NULL, COMPANY_ID INT NOT NULL, FOREIGN KEY(LAB_NUM) REFERENCES laboratory_test(LAB_NUM), FOREIGN KEY(COMPANY_ID) REFERENCES medical_company(COMPANY_ID) );
```

## DRUGS TABLE

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE DRUGS ( DRUG_ID INT PRIMARY KEY, DRUG_STRENGTH VARCHAR(20), COMPANY_ID INT NOT NULL, FOREIGN KEY(COMPANY_ID) REFERENCES medical_company(COMPANY_ID) );
```

## MEDICAL\_COMPANY

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE TABLE MEDICAL_RECORD ( RECORD_ID INT PRIMARY KEY, DATE VARCHAR(10) NOT NULL, TREATMENT VARCHAR(200), DESCRIPTION VARCHAR(500), PATIENT_NUM INT NOT NULL, DOCTOR_ID INT NOT NULL, FOREIGN KEY(PATIENT_NUM) REFERENCES PATIENT(PATIENT_NUM), FOREIGN KEY(DOCTOR_ID) REFERENCES DOCTOR(DOCTOR_ID) );
```

2. Insert at least FIVE records in each table using SQL.
















## NURSE RECORD

```
1 INSERT INTO `nurse` (`NURSE_ID`, `F_NAME`, `L_NAME`, `PHONE_NUMBER`, `EMAIL`) VALUES ('1','sarah','silva','9283765467','sarah1@gmail.com');
2 INSERT INTO `nurse` (`NURSE_ID`, `F_NAME`, `L_NAME`, `PHONE_NUMBER`, `EMAIL`) VALUES ('2','lisa','jo','6574898938','lisa2@gmail.com');
3 INSERT INTO `nurse` (`NURSE_ID`, `F_NAME`, `L_NAME`, `PHONE_NUMBER`, `EMAIL`) VALUES ('3','nora','deen','6574876574','nora3@gmail.com');
4 INSERT INTO `nurse` (`NURSE_ID`, `F_NAME`, `L_NAME`, `PHONE_NUMBER`, `EMAIL`) VALUES ('4','azra','noor','6657746354','azra4@gmail.com');
5 INSERT INTO `nurse` (`NURSE_ID`, `F_NAME`, `L_NAME`, `PHONE_NUMBER`, `EMAIL`) VALUES ('5','shawdha','shaleem','0091425563','shawdha5@gmail.com');
```

				NURSE_ID	F_NAME	L_NAME	PHONE_NUMBER	EMAIL
<input type="checkbox"/>				1	sarah	silva	2147483647	sarah1@gmail.com
<input type="checkbox"/>				2	lisa	jo	2147483647	lisa2@gmail.com
<input type="checkbox"/>				3	nora	deen	2147483647	nora3@gmail.com
<input type="checkbox"/>				4	azra	noor	2147483647	azra4@gmail.com
<input type="checkbox"/>				5	shawdha	shaleem	91425563	shawdha5@gmail.com

## DOCTOR RECORD

```
1 INSERT INTO `doctor` (`DOCTOR_ID`, `F_NAME`, `L_NAME`, `PHONR_NUMBER`, `SPECILIZED_AREA`, `EMAIL`)
  VALUES('1','atheef','lathif','0987674452','Cardiologists','atheef1@gmail.com');
2 INSERT INTO `doctor` (`DOCTOR_ID`, `F_NAME`, `L_NAME`, `PHONR_NUMBER`, `SPECILIZED_AREA`, `EMAIL`)
  VALUES('2','silva','sham','6755489012','Physician','silva2@gmail.com');
3 INSERT INTO `doctor` (`DOCTOR_ID`, `F_NAME`, `L_NAME`, `PHONR_NUMBER`, `SPECILIZED_AREA`, `EMAIL`)
  VALUES('3','pasindhu','perera','0768955436','Nephrologists','pasindhu3@gmail.com');
4 INSERT INTO `doctor` (`DOCTOR_ID`, `F_NAME`, `L_NAME`, `PHONR_NUMBER`, `SPECILIZED_AREA`, `EMAIL`)
  VALUES('4','ziyad','khan','0776554463','Neurologists','ziyad4@gmail.com');
5 INSERT INTO `doctor` (`DOCTOR_ID`, `F_NAME`, `L_NAME`, `PHONR_NUMBER`, `SPECILIZED_AREA`, `EMAIL`)
  VALUES('5','janith','rathnayaka','0867765432','Osteopaths','janith5@gmail.com');
```

				DOCTOR_ID	F_NAME	L_NAME	PHONR_NUMBER	SPECILIZED_AREA	EMAIL
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	atheef	lathif	987674452	Cardiologists	atheef1@gmail.com
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	silva	sham	2147483647	Physician	silva2@gmail.com
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	pasindhu	perera	768955436	Nephrologists	pasindhu3@gmail.com
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	ziyad	khan	776554463	Neurologists	ziyad4@gmail.com
<input type="checkbox"/>	 Edit	 Copy	 Delete	5	janith	rathnayaka	867765432	Osteopaths	janith5@gmail.com

## PATIENT RECORD

```
1 INSERT INTO `patient` (`PATIENT_NUM`, `F_NAME`, `L_NAME`, `DOB`, `GENDER`, `PHONE_NUMBER`, `ADDRESS`) VALUES ('1','amjad','ashraf', '2004-aug-14', 'M', '0776558439', 'mentalstreet colombo 7');
2 INSERT INTO `patient` (`PATIENT_NUM`, `F_NAME`, `L_NAME`, `DOB`, `GENDER`, `PHONE_NUMBER`, `ADDRESS`) VALUES ('2', 'thenusan', 'sam', '2002-aug-2', 'M', '0774563439', 'bambalapitiya colombo 3');
3 INSERT INTO `patient` (`PATIENT_NUM`, `F_NAME`, `L_NAME`, `DOB`, `GENDER`, `PHONE_NUMBER`, `ADDRESS`) VALUES ('3','mabrook', 'selvaraj', '2001-sep-26', 'M', '0786358439', 'kollupitiya colombo 4');
4 INSERT INTO `patient` (`PATIENT_NUM`, `F_NAME`, `L_NAME`, `DOB`, `GENDER`, `PHONE_NUMBER`, `ADDRESS`) VALUES ('4', 'shela', 'john', '2000-jul- 3', 'F', '7658490321', 'herishon road colombo 9');
5 INSERT INTO `patient` (`PATIENT_NUM`, `F_NAME`, `L_NAME`, `DOB`, `GENDER`, `PHONE_NUMBER`, `ADDRESS`) VALUES ('5','muadh', 'luthufi', '2002-aug-22', 'M', '0745238439', 'priyamulla negombo');
```

				PATIENT_NUM	F_NAME	L_NAME	DOB	GENDER	PHONE_NUMBER	ADDRESS
<input type="checkbox"/>	Edit	Copy	Delete	1	amjad	ashraf	2004-aug- 14	M	776558439	mentalstreet colombo 7
<input type="checkbox"/>	Edit	Copy	Delete	2	thenusan	sam	2002-aug- 2	M	774563439	bambalapitiya colombo 3
<input type="checkbox"/>	Edit	Copy	Delete	3	mabrook	selvaraj	2001- sep-26	M	786358439	kollupitiya colombo 4
<input type="checkbox"/>	Edit	Copy	Delete	4	shela	john	2000-jul- 3	F	2147483647	herishon road colombo 9
<input type="checkbox"/>	Edit	Copy	Delete	5	muadh	luthufi	2002-aug- 22	M	745238439	priyamulla negombo



APPOINTMENT\_LINK RECORDS

1

INSERT INTO `appointment\_link`(`APPOINTMENT\_ID`,`PATIENT\_NUM`,`DOCTOR\_ID`,`NURSE\_ID`,`RECORD\_ID`) VALUES ('1','1','1','1','1');

2

INSERT INTO `appointment\_link`(`APPOINTMENT\_ID`,`PATIENT\_NUM`,`DOCTOR\_ID`,`NURSE\_ID`,`RECORD\_ID`) VALUES ('2','2','2','2','2');

3

INSERT INTO `appointment\_link`(`APPOINTMENT\_ID`,`PATIENT\_NUM`,`DOCTOR\_ID`,`NURSE\_ID`,`RECORD\_ID`) VALUES ('3','3','3','3','3');

4

INSERT INTO `appointment\_link`(`APPOINTMENT\_ID`,`PATIENT\_NUM`,`DOCTOR\_ID`,`NURSE\_ID`,`RECORD\_ID`) VALUES ('4','4','4','4','4');

5

INSERT INTO `appointment\_link`(`APPOINTMENT\_ID`,`PATIENT\_NUM`,`DOCTOR\_ID`,`NURSE\_ID`,`RECORD\_ID`) VALUES ('5','5','5','5','5');

	APPOINTMENT_ID	PATIENT_NUM	DOCTOR_ID	NURSE_ID	RECORD_ID
<input type="checkbox"/> Edit Copy Delete	1	1	1	1	1
<input type="checkbox"/> Edit Copy Delete	2	2	2	2	2
<input type="checkbox"/> Edit Copy Delete	3	3	3	3	3
<input type="checkbox"/> Edit Copy Delete	4	4	4	4	4
<input type="checkbox"/> Edit Copy Delete	5	5	5	5	5
<input type="checkbox"/> Check all	With selected: Edit Copy Delete Export				

APPOINTMENT\_DETAILS RECORDS

1

INSERT INTO `appointment\_details`(`APPOINTMENT\_ID`,`APPOINEMENT\_DATE`,`APPOINTMENT\_TIME`) VALUES ('1','2023-01-20','08:00');

2

INSERT INTO `appointment\_details`(`APPOINTMENT\_ID`,`APPOINEMENT\_DATE`,`APPOINTMENT\_TIME`) VALUES ('2','2023-02-12','09:30');

3

INSERT INTO `appointment\_details`(`APPOINTMENT\_ID`,`APPOINEMENT\_DATE`,`APPOINTMENT\_TIME`) VALUES ('3','2023-01-10','11:20');

4

INSERT INTO `appointment\_details`(`APPOINTMENT\_ID`,`APPOINEMENT\_DATE`,`APPOINTMENT\_TIME`) VALUES ('4','2023-01-11','10:11');

5

INSERT INTO `appointment\_details`(`APPOINTMENT\_ID`,`APPOINEMENT\_DATE`,`APPOINTMENT\_TIME`) VALUES ('5','2023-02-21','13:10');

	APPOINTMENT_ID	APPOINEMENT_DATE	APPOINTMENT_TIME
<input type="checkbox"/> Edit Copy Delete	1	2023-01-20	08:00:00
<input type="checkbox"/> Edit Copy Delete	2	2023-02-12	09:30:00
<input type="checkbox"/> Edit Copy Delete	3	2023-01-10	11:20:00
<input type="checkbox"/> Edit Copy Delete	4	2023-01-11	10:11:00
<input type="checkbox"/> Edit Copy Delete	5	2023-02-21	13:10:00

MEDICAL\_RECORD

1

INSERT INTO `medical\_record`(`RECORD\_ID`,`DATE`,`TREATEMENT`,`DESCRIPTION`,`PATIENT\_NUM`,`DOCTOR\_ID`) VALUES ('1','2023-jan-3','heart attack','full body check up needed and a open heart surgery','1','1');

2

INSERT INTO `medical\_record`(`RECORD\_ID`,`DATE`,`TREATEMENT`,`DESCRIPTION`,`PATIENT\_NUM`,`DOCTOR\_ID`) VALUES ('2','2023-feb-1','check up','routine checkups and screening tests','2','2');

3

INSERT INTO `medical\_record`(`RECORD\_ID`,`DATE`,`TREATEMENT`,`DESCRIPTION`,`PATIENT\_NUM`,`DOCTOR\_ID`) VALUES ('3','2023-jan-3','kidney faliour','dialysis','3','3');

4

INSERT INTO `medical\_record`(`RECORD\_ID`,`DATE`,`TREATEMENT`,`DESCRIPTION`,`PATIENT\_NUM`,`DOCTOR\_ID`) VALUES ('4','2023-jan-3','spinal tumor','chemotherapy and radiation therapy','4','4');

5

INSERT INTO `medical\_record`(`RECORD\_ID`,`DATE`,`TREATEMENT`,`DESCRIPTION`,`PATIENT\_NUM`,`DOCTOR\_ID`) VALUES ('5','2023-jan-3','back pain','exercises and stretch','5','5');

	RECORD_ID	DATE	TREATEMENT	DESCRIPTION	PATIENT_NUM	DOCTOR_ID
<input type="checkbox"/> Edit Copy Delete	1	2023-jan-3	heart attack	full body check up needed and a open heart surgeon...	1	1
<input type="checkbox"/> Edit Copy Delete	2	2023-feb-1	check up	routine checkups and screening tests	2	2
<input type="checkbox"/> Edit Copy Delete	3	2023-jan-3	kidney faliour	dialysis	3	3
<input type="checkbox"/> Edit Copy Delete	4	2023-jan-3	spinal tumor	chemotherapy and radiation therapy	4	4
<input type="checkbox"/> Edit Copy Delete	5	2023-jan-3	back pain	exercises and stretch	5	5

## LABORATORY\_TEST RECORDS

```
1 INSERT INTO `laboratory_test`(`LAB_NUM`, `TEST_NAME`, `DATE`, `REPORT`, `RECORD_ID`) VALUES ('1','CBC','2023-jan-4','WBC:4.8','1');
2 INSERT INTO `laboratory_test`(`LAB_NUM`, `TEST_NAME`, `DATE`, `REPORT`, `RECORD_ID`) VALUES ('2','urine','2023-jan-8','normal','3');
3 INSERT INTO `laboratory_test`(`LAB_NUM`, `TEST_NAME`, `DATE`, `REPORT`, `RECORD_ID`) VALUES ('3','blood test','2023-jan-16','type A+','2');
4 INSERT INTO `laboratory_test`(`LAB_NUM`, `TEST_NAME`, `DATE`, `REPORT`, `RECORD_ID`) VALUES ('4','X-RAY','2023-jan-4','born crack','5');
5 INSERT INTO `laboratory_test`(`LAB_NUM`, `TEST_NAME`, `DATE`, `REPORT`, `RECORD_ID`) VALUES ('5','MRI','2023-jan-4','cancer','4');
```

			LAB_NUM	TEST_NAME	DATE	REPORT	RECORD_ID	
<input type="checkbox"/>	Edit	Copy	Delete	1	CBC	2023-jan-4	WBC:4.8	1
<input type="checkbox"/>	Edit	Copy	Delete	2	urine	2023-jan-8	normal	3
<input type="checkbox"/>	Edit	Copy	Delete	3	blood test	2023-jan-1	type A+	2
<input type="checkbox"/>	Edit	Copy	Delete	4	X-RAY	2023-jan-4	born crack	5
<input type="checkbox"/>	Edit	Copy	Delete	5	MRI	2023-jan-4	cancer	4
	<input type="checkbox"/> Check all	With selected:		Edit	Copy	Delete	Export	

## PRESCRIPTION RECORDS

```
1 INSERT INTO prescription(PRESCRIPTION_NUM, NAME, DATE, RECORD_ID, DRUG_ID) VALUES ('1','aspirin','2023-jan-3','1','1');
2 INSERT INTO prescription(PRESCRIPTION_NUM, NAME, DATE, RECORD_ID, DRUG_ID) VALUES ('2','vitamin C','2023-feb-1','2','2');
3 INSERT INTO prescription(PRESCRIPTION_NUM, NAME, DATE, RECORD_ID, DRUG_ID) VALUES ('3','ACE inhibitors','2023-jan-3','3','3');
4 INSERT INTO prescription(PRESCRIPTION_NUM, NAME, DATE, RECORD_ID, DRUG_ID) VALUES ('4','primidone','2023-jan-3','4','4');
5 INSERT INTO prescription(PRESCRIPTION_NUM, NAME, DATE, RECORD_ID, DRUG_ID) VALUES ('5','vitamin D','2023-jan-3','5','5');
```

				PRESCRIPTION_NUM	NAME	DATE	RECORD_ID	DRUG_ID
<input type="checkbox"/>	Edit	Copy	Delete	1	aspirin	2023-jan-3	1	1
<input type="checkbox"/>	Edit	Copy	Delete	2	vitamin C	2023-feb-1	2	2
<input type="checkbox"/>	Edit	Copy	Delete	3	ACE inhibitors	2023-jan-3	3	3
<input type="checkbox"/>	Edit	Copy	Delete	4	primidone	2023-jan-3	4	4
<input type="checkbox"/>	Edit	Copy	Delete	5	vitamin D	2023-jan-3	5	5
<input type="checkbox"/>	Check all	With selected:		Edit	Copy	Delete	Export	

## EQUIPMENT RECORDS

```
1 INSERT INTO `equipment`(`EQUIPMENT_NUM`, `EQUIPMENT_NAME`, `LAB_NUM`, `COMPANY_ID`) VALUES ('1','Automated hematology analyzer','1','1');
2 INSERT INTO `equipment`(`EQUIPMENT_NUM`, `EQUIPMENT_NAME`, `LAB_NUM`, `COMPANY_ID`) VALUES ('2','urine test strip','2','2');
3 INSERT INTO `equipment`(`EQUIPMENT_NUM`, `EQUIPMENT_NAME`, `LAB_NUM`, `COMPANY_ID`) VALUES ('3','venipuncture device','3','3');
4 INSERT INTO `equipment`(`EQUIPMENT_NUM`, `EQUIPMENT_NAME`, `LAB_NUM`, `COMPANY_ID`) VALUES ('4','radiography machine','4','4');
5 INSERT INTO `equipment`(`EQUIPMENT_NUM`, `EQUIPMENT_NAME`, `LAB_NUM`, `COMPANY_ID`) VALUES ('5','MRI machine','5','5');
```

				EQUIPMENT_NUM	EQUIPMENT_NAME	LAB_NUM	COMPANY_ID
<input type="checkbox"/>	Edit	Copy	Delete	1	Automated hematology analyzer	1	1
<input type="checkbox"/>	Edit	Copy	Delete	2	urine test strip	2	2
<input type="checkbox"/>	Edit	Copy	Delete	3	venipuncture device	3	3
<input type="checkbox"/>	Edit	Copy	Delete	4	radiography machine	4	4
<input type="checkbox"/>	Edit	Copy	Delete	5	MRI machine	5	5



## DRUGS RECORD

```

1 INSERT INTO `drugs` (`DRUG_ID`, `DRUG_STRENGTH`, `COMPANY_ID`) VALUES ('1','300mg','1');
2 INSERT INTO `drugs` (`DRUG_ID`, `DRUG_STRENGTH`, `COMPANY_ID`) VALUES ('2','150mg','2');
3 INSERT INTO `drugs` (`DRUG_ID`, `DRUG_STRENGTH`, `COMPANY_ID`) VALUES ('3','10mg','3');
4 INSERT INTO `drugs` (`DRUG_ID`, `DRUG_STRENGTH`, `COMPANY_ID`) VALUES ('4','150mg','4');
5 INSERT INTO `drugs` (`DRUG_ID`, `DRUG_STRENGTH`, `COMPANY_ID`) VALUES ('5','200mg','5');

```

	DRUG_ID	DRUG_STRENGTH	COMPANY_ID
<input type="checkbox"/> Edit Copy Delete	1	300mg	1
<input type="checkbox"/> Edit Copy Delete	2	150mg	2
<input type="checkbox"/> Edit Copy Delete	3	10mg	3
<input type="checkbox"/> Edit Copy Delete	4	150mg	4
<input type="checkbox"/> Edit Copy Delete	5	200mg	5

## MEDICAL\_COMPANY RECORD

```

1 INSERT INTO `medical_record` (`RECORD_ID`, `DATE`, `TREATEMENT`, `DESCRIPTION`, `PATIENT_NUM`, `DOCTOR_ID`) VALUES ('1','2023-jan-3','heart attack','full body check up needed and a open heart surgery','1','1');
2 INSERT INTO `medical_record` (`RECORD_ID`, `DATE`, `TREATEMENT`, `DESCRIPTION`, `PATIENT_NUM`, `DOCTOR_ID`) VALUES ('2','2023-feb-1','check up','routine checkups and screening tests','2','2');
3 INSERT INTO `medical_record` (`RECORD_ID`, `DATE`, `TREATEMENT`, `DESCRIPTION`, `PATIENT_NUM`, `DOCTOR_ID`) VALUES ('3','2023-jan-3','kidney failiour','dialysis','3','3');
4 INSERT INTO `medical_record` (`RECORD_ID`, `DATE`, `TREATEMENT`, `DESCRIPTION`, `PATIENT_NUM`, `DOCTOR_ID`) VALUES ('4','2023-jan-3','spinal tumor','chemotherapy and radiation therapy','4','4');
5 INSERT INTO `medical_record` (`RECORD_ID`, `DATE`, `TREATEMENT`, `DESCRIPTION`, `PATIENT_NUM`, `DOCTOR_ID`) VALUES ('5','2023-jan-3','back pain','exercises and stretch','5','5');

```

	RECORD_ID	DATE	TREATEMENT	DESCRIPTION	PATIENT_NUM	DOCTOR_ID
<input type="checkbox"/> Edit Copy Delete	1	2023-jan-3	heart attack	full body check up needed and a open heart surgeon...	1	1
<input type="checkbox"/> Edit Copy Delete	2	2023-feb-1	check up	routine checkups and screening tests	2	2
<input type="checkbox"/> Edit Copy Delete	3	2023-jan-3	kidney failiour	dialysis	3	3
<input type="checkbox"/> Edit Copy Delete	4	2023-jan-3	spinal tumor	chemotherapy and radiation therapy	4	4
<input type="checkbox"/> Edit Copy Delete	5	2023-jan-3	back pain	exercises and stretch	5	5

3. Write and run an SQL statement to add one additional column (attribute) in any one of the existing tables with a default value.

- I am going to add a new column to the **PRESCRIPTION** table.
- Column name **status**, data type **varchar**, default value **present**.

```

1 ALTER TABLE prescription ADD status VARCHAR(10) DEFAULT 'present';

```

	PRESCRIPTION_NUM	NAME	DATE	RECORD_ID	DRUG_ID	status
<input type="checkbox"/> Edit Copy Delete	1	aspirin	2023-jan-3	1	1	present
<input type="checkbox"/> Edit Copy Delete	2	vitamin C	2023-feb-1	2	2	present
<input type="checkbox"/> Edit Copy Delete	3	ACE inhibitors	2023-jan-3	3	3	present
<input type="checkbox"/> Edit Copy Delete	4	primidone	2023-jan-3	4	4	present
<input type="checkbox"/> Edit Copy Delete	5	vitamin D	2023-jan-3	5	5	present

4. Write and run an SQL statement to update the default value of the newly added column to a different value for certain rows based on a condition using any other column.

- Here the condition is **WHERE NAME = 'ACE inhibitors'**
- New value for that status column in that matching row '**not present**'

```
1 UPDATE prescription SET status = 'not present' WHERE NAME = 'ACE inhibitors';
```

		PRESCRIPTION_NUM	NAME	DATE	RECORD_ID	DRUG_ID	status
<input type="checkbox"/>	Edit Copy Delete	1	aspirin	2023-jan-3	1	1	present
<input type="checkbox"/>	Edit Copy Delete	2	vitamin C	2023-feb-1	2	2	present
<input type="checkbox"/>	Edit Copy Delete	3	ACE inhibitors	2023-jan-3	3	3	not present
<input type="checkbox"/>	Edit Copy Delete	4	primidone	2023-jan-3	4	4	present
<input type="checkbox"/>	Edit Copy Delete	5	vitamin D	2023-jan-3	5	5	present

5. In this section, you are required to write SQL queries to interact with the database you implemented. Answer each SQL question in this section with the following:

- First, you provide what you want to do
  - Provide an SQL statement to do what you want to do and provide a screenshot of results after successful execution of the SQL command

a) Write an SQL query to demonstrate the use of SELECT with INNER JOIN and ORDER BY.

- I am selecting the F\_NAME and L\_NAME of patient and doctor from patient and doctor table which is assigned with the alias as P and D. joins the patient table to appointment link table (which has a alias as AL) on P. PATIENT\_NUM = AL. PATIENT\_NUM. then joins the appointment link table on AL.DOCTOR\_ID = D.DOCTOR\_ID. So, this gives the patient records with the doctor record which they are assigned to for an appointment. Order by is used to arrange it using the patient F\_NAME.

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds) [F\_NAME: AMJAD... - THENUSAN...]

```
SELECT P.F_NAME, P.L_NAME, D.F_NAME, D.L_NAME FROM patient P INNER JOIN appointment_link AL ON P.PATIENT_NUM = AL.PATIENT_NUM INNER JOIN doctor D ON AL.DOCTOR_ID = D.DOCTOR_ID ORDER BY P.F_NAME;
```

☐ Profiling ☐ Edit inline ☐ Edit ☐ Explain SQL ☐ Create PHP code ☐ Refresh

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

F_NAME	L_NAME	F_NAME	L_NAME
amjad	ashraf	atheef	lathif
mabrook	selvaraj	pasindhu	perera
muadh	luthufi	janith	rathnayaka
shela	john	ziyad	khan
thenusan	sam	silva	sham

b) Write an SQL query to demonstrate the use of SELECT with WHERE and IN.

- This selects all the records from the doctor table where the doctor id is equal to 1,3 and 5.

✓ Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM doctor WHERE DOCTOR_ID IN (1,3,5);
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		DOCTOR_ID	F_NAME	L_NAME	PHONR_NUMBER	SPECILIZED_AREA	EMAIL
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	atheef	lathif	987674452 Cardiologists atheef1@gmail.com
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	pasindhu	perera	768955436 Nephrologists pasindhu3@gmail.com
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	5	janith	rathnayaka	867765432 Osteopaths janith5@gmail.com

c) Write an SQL query to demonstrate the use of at least one DATE function.

- In this it selects all the records from the appointment details table where the month of the appointment is January (1).

✓ Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.)

```
SELECT * FROM appointment_details WHERE MONTH(APPOINEMENT_DATE) = 1;
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

			APPOINTMENT_ID	APPOINEMENT_DATE	APPOINTMENT_TIME
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	2023-01-20 08:00:00
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	2023-01-10 11:20:00
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	4	2023-01-11 10:11:00

d) Write an SQL statement to create a VIEW using a SELECT statement with a JOIN. Provide the statement to create the VIEW you want and demonstrate the output of the VIEW using 'SELECT \* FROM;'.

- Here I created a view table (virtual table) called patient\_doctor and has aliases for the column names as patient\_fname and patient\_lname same for the doctor. Then joins the



patient table to the appointment link table on patient\_num. and does the same join for doctor on doctor\_id. This will create a virtual table with columns patient\_fname, patient\_lname, doctor\_fname and doctor\_lname by including the matching names.

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
CREATE VIEW patient_doctor AS SELECT P.F_NAME AS patient_fname, P.L_NAME AS patient_lname, D.F_NAME AS doctor_fname, D.L_NAME AS doctor_lname FROM patient P JOIN appointment_link AL ON P.PATIENT_NUM = AL.PATIENT_NUM JOIN doctor D ON AL.DOCTOR_ID = D.DOCTOR_ID;
```

✓ Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)

```
SELECT * FROM patient_doctor;
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows:  Filter rows:

Extra options

				patient_fname	patient_lname	doctor_fname	doctor_lname
<input type="checkbox"/>	Edit	Copy	Delete	amjad	ashraf	atheef	lathif
<input type="checkbox"/>	Edit	Copy	Delete	thenusan	sam	silva	sham
<input type="checkbox"/>	Edit	Copy	Delete	mabrook	selvaraj	pasindhu	perera
<input type="checkbox"/>	Edit	Copy	Delete	shela	john	ziyad	khan
<input type="checkbox"/>	Edit	Copy	Delete	muadh	luthufi	janith	rathnayaka