

TASK C

Team: 12

Team Members: AJ Kimbrough ANK210005, Ariana Qozat AOQ210000, Aryan Tyagi AXT200084, Khushboo Amarnani KAA210004, Natthiya Sae Ngow NXS220110.

1. CREATE TABLE in mySql for create.sql

```
1  CREATE TABLE `Patients` (  
2      `Patient_id` int NOT NULL AUTO_INCREMENT,  
3      `First_name` varchar(45) NOT NULL,  
4      `Last_name` varchar(45) NOT NULL,  
5      `Date_of_birth` date NOT NULL,  
6      `Gender` varchar(45) DEFAULT NULL,  
7      `Contact_info` varchar(45) NOT NULL,  
8      `Address` varchar(45) NOT NULL,  
9      `Insurance_info` varchar(45) NOT NULL,  
10     `Medical_history` longtext,  
11     PRIMARY KEY (`Patient_id`)  
12 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3
```

```
1  CREATE TABLE `Staff` (  
2      `Staff_id` int NOT NULL AUTO_INCREMENT,  
3      `First_name` varchar(45) NOT NULL,  
4      `Last_name` varchar(45) NOT NULL,  
5      `Role` varchar(45) NOT NULL,  
6      `Department` varchar(45) NOT NULL,  
7      `Contact_info` varchar(45) NOT NULL,  
8      `Availability` varchar(45) NOT NULL,  
9      `Assigned_patients` mediumtext NOT NULL,  
10     PRIMARY KEY (`Staff_id`)  
11 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3
```

```
1  CREATE TABLE `Medical_Records` (  
2      `Record_id` int NOT NULL AUTO_INCREMENT,  
3      `Patient_id` int NOT NULL,  
4      `Diagnosis` longtext NOT NULL,  
5      `Treatment` longtext NOT NULL,  
6      `Doctor_notes` longtext NOT NULL,  
7      `Medications` longtext NOT NULL,  
8      `Record_date` date NOT NULL,  
9      PRIMARY KEY (`Record_id`),  
10     KEY `Patient_id_idx` (`Patient_id`)  
11 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3
```

```

1  CREATE TABLE `Appointments` (
2      `Appointment_id` int NOT NULL AUTO_INCREMENT,
3      `Patient_id` int NOT NULL,
4      `Staff_id` int NOT NULL,
5      `Date` date NOT NULL,
6      `Time` time NOT NULL,
7      `Reason` longtext,
8      `Status` varchar(45) NOT NULL,
9      PRIMARY KEY (`Appointment_id`),
10     KEY `Patient_id_idx` (`Patient_id`),
11     KEY `Staff_id_idx` (`Staff_id`),
12     CONSTRAINT `Patient_id` FOREIGN KEY (`Patient_id`) REFERENCES `Patients` (`Patient_id`),
13     CONSTRAINT `Staff_id` FOREIGN KEY (`Staff_id`) REFERENCES `Staff` (`Staff_id`)
14 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3

```

DDL for TaskC.Billing

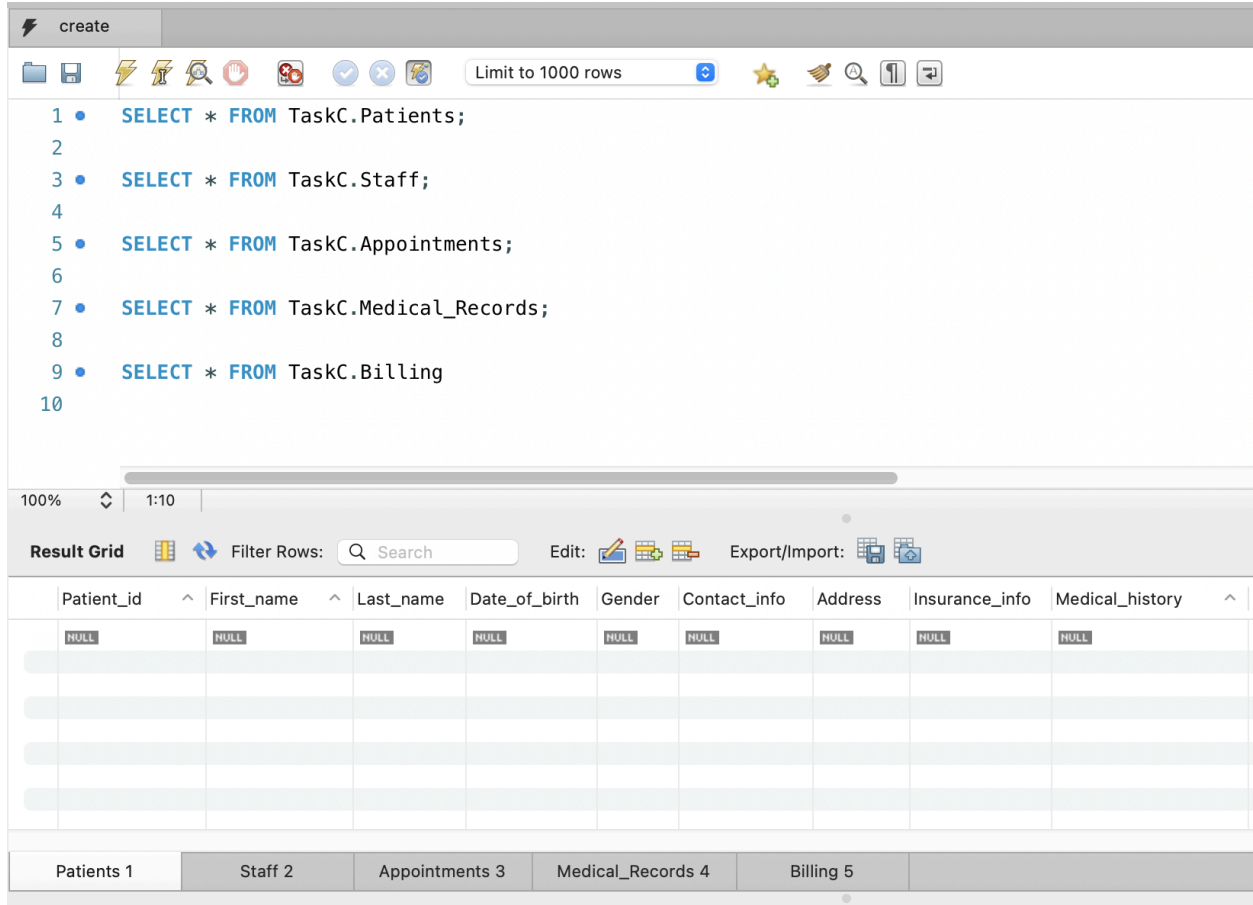
```

1  CREATE TABLE `Billing` (
2      `Billing_id` int NOT NULL AUTO_INCREMENT,
3      `Patient_id` int NOT NULL,
4      `Total_cost` decimal(10,2) NOT NULL,
5      `Insurance` varchar(45) NOT NULL,
6      `Coverage` varchar(45) NOT NULL,
7      `Payment_received` decimal(10,2) NOT NULL,
8      `Outstanding_balance` decimal(10,2) NOT NULL,
9      `Billing_date` date NOT NULL,
10     PRIMARY KEY (`Billing_id`),
11     KEY `Patient_id_idx` (`Patient_id`)
12 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3

```

OUTPUT creat.sql: Link for creat.sql file  SQL Files and output of csv files  CSV Files

1. Patients_Table : mySQL



The screenshot shows a MySQL IDE window titled "create". The SQL editor contains the following script:

```
1 • SELECT * FROM TaskC.Patients;
2
3 • SELECT * FROM TaskC.Staff;
4
5 • SELECT * FROM TaskC.Appointments;
6
7 • SELECT * FROM TaskC.Medical_Records;
8
9 • SELECT * FROM TaskC.Billing
10
```

Below the editor is a "Result Grid" showing 10 rows of data. All fields are NULL. The columns are: Patient_id, First_name, Last_name, Date_of_birth, Gender, Contact_info, Address, Insurance_info, Medical_history.

Patient_id	First_name	Last_name	Date_of_birth	Gender	Contact_info	Address	Insurance_info	Medical_history
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

At the bottom, there are tabs for "Patients 1", "Staff 2", "Appointments 3", "Medical_Records 4", and "Billing 5".

Output : Insert the data to Patients_Table and Export to CSV.

```
1 • INSERT INTO `TaskC`.`Patients` (
2   `Patient_id`, `First_name`, `Last_name`, `Date_of_birth`, `Gender`, `Contact_info`,
3   `Address`, `Insurance_info`, `Medical_history`)
4   VALUES ('0001', 'Henry', 'Tomson', '1991-03-01', 'M', '123-4567', '123 Oak St, City', 'Cigna', 'Allergy to peanut');
5 • INSERT INTO `TaskC`.`Patients` (`Patient_id`, `First_name`, `Last_name`, `Date_of_birth`,
6   `Gender`, `Contact_info`, `Address`, `Insurance_info`, `Medical_history`)
7   VALUES ('0002', 'JC', 'Kind', '1986-02-01', 'M', '456-7890', '456 Stem St, City', 'Atena', 'Allergy to honey');
8
```

Patient_id	First_name	Last_name	Date_of_birth	Gender	Contact_info	Address	Insurance_info	Medical_history
1	Henry	Tomson	1991-03-01	M	123-4567	123 Oa...	Cigna	Allergy to peanut
2	JC	Kind	1986-02-01	M	456-7890	456 Ste...	Atena	Allergy to honey
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 1

Staff 2

Appointments 3

Medical_Records 4

Billing 5

Patients

Patient_id	First_name	Last_name	Date_of_birth	Gender	Contact_info	Address	Insurance_info	Medical_history
1	Henry	Tomson	1991-03-01	M	123-4567	123 Oak St, City	Cigna	Allergy to peanut
2	JC	Kind	1986-02-01	M	456-7890	456 Stern St, City	Atena	Allergy to honey

2. Staff_Table : mySQL

[illegible]

Output : Insert the data to **Staff_Table and Export to CSV.**

```

1  INSERT INTO `TaskC`.`Staff` (
2      `Staff_id`, `First_name`, `Last_name`, `Role`, `Department`,
3      `Contact_info`, `Availability`, `Assigned_patients`)
4  VALUES ('1', 'Tim', 'Johnson', 'Doctor', 'General', '555-8765', 'Mon-Fri', '1,2');
5  INSERT INTO `TaskC`.`Staff` (
6      `Staff_id`, `First_name`, `Last_name`, `Role`, `Department`,
7      `Contact_info`, `Availability`, `Assigned_patients`)
8  VALUES ('2', 'Bob', 'Pepper', 'Nurse', 'Pediatrics', '555-4321', 'Tue-Thu', '1');
9

```


Output : Insert the data to **Appointments_Table** and Export to CSV.

```
1  INSERT INTO `TaskC`.`Appointments` (`Appointment_id`, `Patient_id`, `Staff_id`, `Date`, `Time`,  
2  `Reason`, `Status`) VALUES ('1', '1', '1', '2024-01-10', '9:00', 'Regular Checkup', 'Completed');  
3  INSERT INTO `TaskC`.`Appointments` (`Appointment_id`, `Patient_id`, `Staff_id`, `Date`, `Time`,  
4  `Reason`, `Status`) VALUES ('2', '2', '2', '2024-03-15', '14:30', 'Follow-up', 'Pending');  
5
```

Appointment_id ^	Patient_id	Staff_id	Date	Time	Reason	Status ^
1	1	1	2024-01-10	09:00:...	Regular Checkup	Completed
2	2	2	2024-03-15	14:30:...	Follow-up	Pending
NULL	NULL	NULL	NULL	NULL	NULL	NULL
Patients 1 Staff 2 Appointments 3 Medical_Records 4 Billing 5						

Appointments

Appointment_id	Patient_id	Staff_id	Date	Time	Reason	Status
1	1	1	2024-01-10	09:00:00	Regular Checkup	Completed
2	2	2	2024-03-15	14:30:00	Follow-up	Pending

4. **Medical_Records_Table:** mySQL

Result Grid

 Filter Rows:

Edit:

Export/Import:

Record_id	Patient_id	Diagnosis ^	Treatment	Doctor_notes	Medications	Record_date
NULL	NULL	NULL	NULL	NULL	NULL	

Patients 1
Staff 2
Appointments 3
Medical_Records 4
Billing 5

Output : Insert the data to **Medical_Records_Table** and Export to CSV.

```
1 INSERT INTO `TaskC`.`Medical_Records` (`Record_id`, `Patient_id`, `Diagnosis`, `Treatment`,
2 `Doctor_notes`, `Medications`, `Record_date`) VALUES ('1', '1', 'Hypertension', 'Medication Adjusted',
3 'Monitor blood pressure daily', 'ACE inhibitors', '2024-01-10');
4 INSERT INTO `TaskC`.`Medical_Records` (`Record_id`, `Patient_id`, `Diagnosis`, `Treatment`,
5 `Doctor_notes`, `Medications`, `Record_date`) VALUES ('2', '2', 'Diabetes', 'Insulin Therapy',
6 'Regular glucose monitoring', 'Insulin', '2024-03-15');
7
```

Medical_Records

Record_id	Patient_id	Diagnosis	Treatment	Doctor_notes	Medications	Record_date
1	1	Hypertension	Medication Adjusted	Monitor blood pressure daily	ACE inhibitors	2024-01-10
2	2	Diabetes	Insulin Therapy	Regular glucose monitoring	Insulin	2024-03-15

Record_id	Patient_id	Diagnosis	Treatment	Doctor_notes	Medications	Record_date
1	1	Hypertension	Medication Adjusted	Monitor blood pressure daily	ACE inhibitors	2024-01-10
2	2	Diabetes	Insulin Therapy	Regular glucose monitoring	Insulin	2024-03-15
NULL	NULL	NULL	NULL	NULL	NULL	NULL
Patients 1		Staff 2	Appointments 3	Medical_Records 4	Billing 5	

5. Billing_Table : mySQL

[illegible]

Output : Insert the data to **Billing_Table and Export to CSV.**

```

• SELECT * FROM TaskC.Billing;
}

• SELECT Billing_id FROM TaskC.Billing;

• ALTER TABLE TaskC.Billing MODIFY Billing_id INT AUTO_INCREMENT;
}

• INSERT INTO TaskC.Billing (Billing_id, Patient_id, Total_cost, Insurance, Coverage, Payment_received,
  Outstanding_balance, Billing_date)
  VALUES (1, 1, 300, 'Cigna', 0.90, 0.9 * 300, 300 - (0.9 * 300), '2024-01-10');
}

• INSERT INTO TaskC.Billing (Billing_id, Patient_id, Total_cost, Insurance, Coverage, Payment_received,
  Outstanding_balance, Billing_date)
  VALUES (2, 2, 500, 'Athena', 0.80, 0.8 * 500, 500 - (0.9 * 500), '2024-03-15');
}

```

Billing_id	Patient_id	Total_cost	Insurance	Coverage	Payment_received	Outstanding_balance	Billing_date
1	1	300.00	Cigna	0.90	270.00	30.00	2024-01-10
2	2	500.00	Atena	0.80	400.00	50.00	2024-03-15
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Patients 1

Staff 2

Appointments 3

Medical_Records 4

Billing 5

Billing

Billing_id	Patient_id	Total_cost	Insurance	Coverage	Payment_received	Outstanding_balance	Billing_date
1	1	300.00	Cigna	0.90	270.00	30.00	2024-01-10
2	2	500.00	Atena	0.80	400.00	50.00	2024-03-15

2. Load data : load.sql

Loading data :  CSV Files

```
1 ● CREATE DATABASE IF NOT EXISTS Loaddata;
2
3 ● USE Loaddata;
4
5 ● DROP TABLE IF EXISTS Patients_data;
6
7 ● CREATE TABLE Patients_data
8 ( Patient_id INT PRIMARY KEY,
9   First_name VARCHAR(255),
10  Last_name VARCHAR(255),
11  Date_of_birth DATE,
12  Gender VARCHAR(255),
13  Contact_info VARCHAR(255),
14  Address VARCHAR(255),
15  Insurance_info VARCHAR(255),
16  Medical_history TEXT
17 );
18
```

```

19 ● SELECT * FROM Patients_data;
20
21
22 ● LOAD DATA INFILE 'Patient_data.csv' INTO TABLE Patients_data
23 FIELDS TERMINATED BY ','
24 ENCLOSED BY '"'
25 LINES TERMINATED BY '\n'
26 IGNORE 1 LINES;
27
28 ● SELECT * FROM Patients_data
29

```

1:29

Result Grid



Filter Rows:

Search

Edit:



Export/Import:



Patient_id	First_name	Last_name	Date_of_birth	Gender	Contact_info	Address	Insurance_info	Medical_history
1	A	Arron	1990-03-01	M	555-1234	123 Main St City	Aetna	Persistent pain
2	B	Barron	1985-02-14	F	555-5678	456 Debby St City	Blue Cross	Allergy to penicillin
3	C	Cane	1980-01-31	M	555-10122	124 Main St City	Cigna	Depression
4	D	Diddy	1975-01-16	F	555-14566	457 Debby St City	Aetna	Diabetes
5	E	Eel	1970-01-01	M	555-19010	125 Main St City	Blue Cross	Sleep disturbances
6	F	Fantasy	1964-12-17	F	555-23454	458 Debby St City	Cigna	migraines
7	G	Gilbert	1959-12-03	M	555-27898	126 Main St City	Aetna	Joint pain
8	H	Hamington	1954-11-18	F	555-32342	459 Debby St City	Blue Cross	seizures
9	I	Inner	1949-11-03	M	555-36786	127 Main St City	Cigna	None

Patients_data 9

Output from **Patients_data.csv** file and export the output to **Loaddata.csv**

Loaddata

Patient_id	First_name	Last_name	Date_of_birth	Gender	Contact_info	Address	Insurance_info	Medical_history
1	A	Arron	1990-03-01	M	555-1234	123 Main St City	Aetna	Persistent pain
2	B	Barron	1985-02-14	F	555-5678	456 Debby St City	Blue Cross	Allergy to penicillin
3	C	Cane	1980-01-31	M	555-10122	124 Main St City	Cigna	Depression
4	D	Diddy	1975-01-16	F	555-14566	457 Debby St City	Aetna	Diabetes
5	E	Eel	1970-01-01	M	555-19010	125 Main St City	Blue Cross	Sleep disturbances
6	F	Fantasy	1964-12-17	F	555-23454	458 Debby St City	Cigna	migraines
7	G	Gilbert	1959-12-03	M	555-27898	126 Main St City	Aetna	Joint pain
8	H	Hamington	1954-11-18	F	555-32342	459 Debby St City	Blue Cross	seizures
9	I	Inner	1949-11-03	M	555-36786	127 Main St City	Cigna	None
10	J	Jazz	1944-10-19	F	555-41230	460 Debby St City	Aetna	Heartburn
11	K	King	1939-10-05	M	555-45674	128 Main St City	Blue Cross	None
12	L	Lemon	1934-09-20	F	555-50118	461 Debby St City	Cigna	Hormonal imbalances
13	M	Mumu	2029-09-05	M	555-54562	129 Main St City	Aetna	seizures
14	N	Nanny	2024-08-21	F	555-59006	462 Debby St City	Blue Cross	migraines
15	O	Oak	2019-08-07	M	555-63450	130 Main St City	Cigna	None
16	P	Pan	2014-07-23	F	555-67894	463 Debby St City	Aetna	Muscle weakness
17	Q	Queen	2009-07-08	M	555-72338	131 Main St City	Blue Cross	migraines
18	R	Ring	2004-06-23	F	555-76782	464 Debby St City	Cigna	Allergy to peanut
19	S	Sunny	1990-03-01	M	555-81226	132 Main St City	Aetna	migraines
20	T	Tata	1985-02-14	F	555-85670	465 Debby St City	Blue Cross	Depression