A hospital consists of different departments where patients are admitted or have taken an appointment.  
A department consists of department id, department name and department floor on which department is located.  
A department also consists of various doctors having different specialities (ortho, onco, spine, radio, etc).  
A doctor is has an id, name, email, contact, phone number. A patient is admitted to a particular department belonging to a particular doctor.  
Patient has patient id (also called as registration number), name, address, blood group, contact number.  
A patient can avail a tests package. Tests package consists of package id, package name/type, package cost and the lists of tests in 1 single package.  
After a discharge from hospital, a patient can give process improvement recommendation to the hospital  
A PIR consists of process improvement recommendation id, patient name, patient id (no need to give doctor name and id as depend on patient id, all info is extracted), PIR (string type, max 100 to 200 words) - **Process improvement recommendation**

more details to be added (2 tables to be added)

Tables:

1. Patient
2. Doctor
3. Departments of the specialities
4. Packages
5. **PIR – substitute table**
6. Billing
7. Laboratory
8. Room Allocation

Use spinbot or quilbot for rephrase

Global Health Services is aimed to provide **numerous** services for the diagnosis of different patients.

Bus Reservation system

Bus- Bus

Reservation - Reservation

Bus type – Bus type

Reimbursement - Reimbursement

Billing - Billing

Customer - Customer

Bus\_rental – Bus Bus\_rental

Attributes

**Bus**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data Type | Description |
| bus\_id | INT(10) | Id used to identify every  bus uniquely |
| bus\_name | VARCHAR(50) | Bus's name |
| bus\_engine\_no | VARCHAR(25) | Bus's engine number |
| bus\_chassis\_no | VARCHAR(25) | Bus's chassis number |
| bus\_model\_no | VARCHAR(25) | Bus's model number |
| bus\_price | INT(10) | Bus's renting price |
| bus\_fuel\_type | VARCHAR(10) | Bus's fuel  type(Gasoline/Petrol/Diesel) |
| bus\_mileage | INT(10) | Bus's mileage(per KM) |
| bus\_fuel\_tank\_capacity | INT(10) | Bus's fuel tank's capacity |
| bus\_seating\_capacity | INT(5) | Bus's seating capacity(4/5/6  etc.) |
| bus\_registration\_date | VARCHAR(20) | Bus's registration date |

|  |  |  |
| --- | --- | --- |
| bus\_rating | INT(5) | Bus's user rating |
| bus\_policy | TEXT | Bus's policy |
| created\_at | TIMESTAMP | Date on which bus details  added to DB |

Primary Key: bus\_id

Required Attrivutes: bus\_id, bus\_name, bus\_engine\_no, bus\_chassis\_no, bus\_model\_no, bus\_price, bus\_fuel\_type, bus\_seating\_capacity, bus\_registration\_date, bus\_policy, created\_at

Optional Attributes: bus\_mileage, bus\_fuel\_tank\_capacity, bus\_rating

**Bus Type** -

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data Type | Description |

|  |  |  |
| --- | --- | --- |
| bus\_type\_id | INT(10) | Bus type Id identify every  bus feature |
| bus\_id | INT(10) | Bus Id used to connect with  BusTable |
| bus\_power\_steering | INT | Is bus having power steering  (Yes/No) |
| bus\_air\_conditioner | INT | Is air conditioner available  in bus (Yes/No) |
| bus\_passenger\_airbag | INT | Is passenger airbag available  in bus(Yes/No) |
| bus\_driver\_airbag | INT | Is driver airbag available in  Bus (Yes/No) |
| bus\_sun\_roof | INT | Is any sunroof available in  bus(Yes/No) |
| bus\_driver\_seat | INT(5) | Driver seat is on left or right  side |
| bus\_fog\_lights | INT | Is bus having the fog lights  (Yes/No) |
| bus\_type | VARCHAR(20) | Bus type(Benz, Volvo etc.) |

Primary Key: bus\_type\_id Foreign Key: bus\_id

**Reservation**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data Type | Description |
| reservation\_id | INT(10) | Reservation Id used to identify  every unique reservation |
| bus\_id | INT(10) | Bus Id used to show bus  details |
| customer\_id | INT(10) | Customer Id used to show customer  details |
| bus\_rental\_type\_id | INT(10) | Bus\_rental Type Id provide  bus\_rental details |
| reservation\_start\_location | VARCHAR(25) | Reservation’s Start Location |
| reservation\_end\_location | VARCHAR(25) | Reservation’s end Location |
| reservation\_duration | INT(5) | Reservation’s duration |
| reservation\_trip\_amount | INT(20) | Total Amount chargeable of  reservation |
| bus\_km\_start | INT(20) | Bus’s Kilometres at the start  of Reservation |
| bus\_km\_end | INT(20) | Bus’s Kilometres at the end  of Reservation |
| bus\_fuel\_start | INT(10) | Bus’s Fuel Percentage at the  start of reservation |
| bus\_fuel\_end | INT(10) | Bus’s Fuel Percentage at the  end of reservation |
| reservation\_status | VARCHAR(20) | Reservation’s status will define  reservation |
| created\_at | TIMESTAMP | Reservation’s creation date |
| updated\_at | TIMESTAMP | Reservation’s updating date |

Primary Key: - reservation\_id

Foreign Key: - bus\_id, customer\_id, bus\_rental\_id

Required Attributes: - reservation\_start\_location, reservation\_end\_location, reservation\_duration, reservation\_trip\_amount, created\_at, updated\_at, reservation\_status

Optional Attributes: - bus\_km\_start, bus\_km\_end, bus\_fuel\_start, bus\_fuel\_end

**Reimbursement**

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Data Type** | **Description** |
| reimbursement\_id | INT(10) | Reimbursement Id used to identify  every unique reimbursements |
| reservation\_id | INT(10) | Reservation\_id is referred to  the reservation for which it is reimbursemented |
| deduction\_reimbursedamount | INT(10) | Deduct any amount from  the reimbursed transaction amount |
| reimbursement\_status | VARCHAR(20) | Reimbursement Status(Initiation,  Processing, etc.) |
| reimbursement\_amount | INT(20) | Total Reimbursement amount |
| reimbursement\_account | VARCHAR(20) | The account in which  amount will be reimbursemented |
| created\_at | TIMESTAMP | Reimbursement’s Initiation date |

Primary Key: - reimbursement\_id Foreign Key: - reservation\_id

Required Attributes: - reimbursement\_status, reimbursement\_amount, reimbursement\_account, created\_at Optional Attributes: - deduction\_reimbursedamount

**Billing**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data type | Description |
| billing\_id | INT(10) | Billing Id describe every  billing uniquely |
| Reservation\_id | INT(10) | Reservation Id will provide  reservation details |
| Billing\_mode | VARCHAR(20) | Billing Mode (wallet, CC,  DC, Cash) |
| BusTransaction\_amount | INT(20) | Total amount of booked bus |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Add\_Promocode | VARCHAR(20) | Promo code for special  discount |
| Add\_taxcharges | VARCHAR(10) | Addition charges (taxes) |
| BusTransaction\_status | VARCHAR(10) | Transaction status of the  billing |
| BusBilling\_currency | VARCHAR(20) | In which currency you  paying the amount |
| created\_at | TIMESTAMP | Created Date of Billing |
| updated\_at | TIMESTAMP | Updated Date of Billing |

Note: - CC => Credit Card, DC => Debit Card. Primary Key: - billing\_id

Foreign Key: - reservation\_id

Required Attributes: - billing\_mode, BusTransaction\_amount, billing\_currency, add\_taxcharges

Optional Attributes: - Add\_Promocode, created\_at, updated\_at

**Customer**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data type | Description |
| customer\_id | INT(10) | Customer Id used to identify  user uniquely |
| customer\_first\_name | VARCHAR(50) | Customer's first name |
| customer\_last\_name | VARCHAR(50) | Customer's last name |
| customer\_adress | TEXT | Customer's address |
| customer\_mobile\_number | VARCHAR(20) | Customer's mobile number |
| customer\_role | VARCHAR(10) | Customer's role  (User/Admin/SuperAdmin) |
| customer\_dob | VARCHAR(15) | Customer's date of birth |
| customer\_email | VARCHAR(25) | Customer's email |
| customer\_password | VARCHAR(20) | Customer's password |
| customer\_licecense | VARCHAR(20) | Customer's license number |
| created\_at | TIMESTAMP | Date on which user  registered in DB |

Primary Key: customer\_id

Required Attrivutes: customer\_first\_name, customer\_mobile\_number, customer\_dob, customer\_email, customer\_password, customer\_license, customer\_address, created\_at

Optional Attributes: customer\_last\_name

**Bus Bus\_rental**

bus\_rental\_type\_id, bus\_rental\_trip\_selection, bus\_rental\_seaters, bus\_rental\_fuel\_type, bus\_rental\_car\_type

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data Type | Description |
| bus\_rental\_type\_id | INT(10) | uniquely identify every  bus\_rental details |
| bus\_rental\_trip\_selection | VARCHAR(20) | Bus\_rental Trip Selection used  to determine is it Roundtrip or Oneway Booking |
| bus\_rental\_seaters | INT(10) | Bus\_rental Seaters provide details of total number of  people will seat in car |
| bus\_rental\_fuel\_type | VARCHAR(10) | Bus\_rental Fuel Type describe  about fuel type of car.+6 |

|  |  |  |
| --- | --- | --- |
| bus\_rental\_car\_type | VARCHAR(20) | Bus\_rental Car Type define car’s  type |
| bus\_rental\_auto\_pilot | INT | Bus\_rental Car Auto Pilot option  for auto driving option |
| bus\_rental\_status | VARCHAR(10) | Check the particular car  available at selected date |
| bus\_rental\_start\_date | VARCHAR(20) | Start date When Client want  to Start Journey |
| bus\_rental\_end\_date | VARCHAR(20) | End date When Client want  to End Journey |

CREATE TABLE Bus (

Bus\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Bus\_Name VARCHAR(25) NOT NULL,

Bus\_Engine\_No VARCHAR(25) NOT NULL,

Bus\_Chassis\_No VARCHAR(25) NOT NULL,

Bus\_Model\_No INT NOT NULL,

Bus\_Price INT NOT NULL,

Bus\_Fuel\_Type VARCHAR(25) ,

Bus\_Seating\_Capacity INT,

Bus\_Registration\_Date INT,

Bus\_Policy varchar(25),

Created\_at DATETIME,

Updated\_at DATETIME,

Reservation\_Status VARCHAR(20),

Bus\_Insurance\_Type VARCHAR(25)

);

CREATE TABLE Customer (

Customer\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Customer\_First\_Name VARCHAR(25),

Customer\_Last\_Name VARCHAR(25),

Customer\_Address VARCHAR(25) NOT NULL,

Customer\_Mobile\_Number INT NOT NULL,

Customer\_Role VARCHAR(25) NOT NULL,

Customer\_DateofBirth INT,

Customer\_Email VARCHAR(25),

Customer\_Password INT,

Customer\_License INT,

Created\_at DATETIME

);

CREATE TABLE Bus\_Type (

Bus\_Type\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Bus\_Power\_Steering VARCHAR(25),

Bus\_Air\_Conditioner VARCHAR(25) NOT NULL,

Bus\_Passenger\_Airbag INT NOT NULL,

Bus\_Driver\_Airbag INT NOT NULL,

Bus\_Sun\_Roof INT,

Bus\_Driver\_Seat INT,

Bus\_Fog\_Lights INT,

Bus\_Type INT,

Bus\_Id INT FOREIGN KEY REFERENCES Bus(Bus\_Id)

);

CREATE TABLE Bus\_Rental (

Bus\_Rental\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Bus\_Rental\_Trip\_Selection VARCHAR(25),

Bus\_Rental\_Seaters VARCHAR(25),

Bus\_Rental\_Fuel\_Type VARCHAR(25) NOT NULL,

Bus\_Rental\_Bus\_Type INT NOT NULL,

Bus\_Rental\_Auto\_Pilot INT NOT NULL,

Bus\_Rental\_Start\_Date DATETIME,

Bus\_Rental\_End\_Date DATETIME,

);

CREATE TABLE Reservation (

Reservation\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Reservation\_Last\_Location VARCHAR(25) NOT NULL,

Reservation\_Duration INT NOT NULL,

Reservation\_Trip\_Amount INT NOT NULL,

Bus\_Km\_Start INT,

Bus\_Km\_End INT,

Bus\_Fuel\_Start INT,

Bus\_Fuel\_End INT,

Created\_At DATETIME,

Updated\_At DATETIME,

Reservation\_status VARCHAR(20),

Bus\_Id INT FOREIGN KEY REFERENCES Bus(Bus\_Id),

Customer\_Id INT FOREIGN KEY REFERENCES Customer(Customer\_Id),

Bus\_Rental\_Id INT FOREIGN KEY REFERENCES Bus\_Rental(Bus\_Rental\_Id),

);

CREATE TABLE Billing (

Billing\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Billing\_Mode VARCHAR(20) NOT NULL,

Bus\_Transaction\_Amount int ,

Add\_Promo\_Code VARCHAR(20),

Add\_TaxCharges VARCHAR(20) NOT NULL,

Bus\_Transaction\_Status VARCHAR(10) NOT NULL,

BusBilling\_Currency VARCHAR(20) NOT NULL,

Created\_At TIMESTAMP,

Reservation\_Id int FOREIGN KEY REFERENCES Reservation(Reservation\_Id)

);

CREATE TABLE Reimbursement (

Reimbursement\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Customer\_First\_Name VARCHAR(25),

Deduction\_Reimbursed\_Amount VARCHAR(25) NOT NULL,

Reimbursement\_Status INT NOT NULL,

Reimbursement\_Amount INT NOT NULL,

Reimbursement\_Account INT,

Created\_At DATETIME,

Reservation\_Id INT FOREIGN KEY REFERENCES Reservation(Reservation\_Id)

);

CREATE TABLE Removed\_Buses (

Bus\_Removed\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Status VARCHAR(25),

Time\_Deleted\_At DATETIME,

Bus\_Id INT FOREIGN KEY REFERENCES Bus(Bus\_Id)

);

CREATE TABLE Reimbursement\_Logs (

Reimbursement\_Log\_Id int IDENTITY(1,1) NOT NULL PRIMARY KEY,

Reimbursement\_BackLog\_Status VARCHAR(25),

Last\_Updated\_At DATETIME,

Reimbursement\_Id INT FOREIGN KEY REFERENCES Reimbursement(Reimbursement\_Id)

);

**Data Diagram:**

