**CUSTOMER**

CREATE TABLE `customer` (

`User\_name` varchar(255) NOT NULL,

`customer\_name` varchar(255) NOT NULL,

`customer\_address` varchar(255) NOT NULL,

`customer\_phone` varchar(15) NOT NULL,

`customer\_email` varchar(255) NOT NULL,

PRIMARY KEY (`User\_name`)

);

**ACCOUNTS**

CREATE TABLE `accounts` (

`Membership\_Id` varchar(50) NOT NULL,

`User\_Name` varchar(255) DEFAULT NULL,

`Sign\_up\_Date` date DEFAULT NULL,

PRIMARY KEY (`Membership\_Id`)

);

**PROPERTY**

CREATE TABLE `property` (

`Property\_ID` int NOT NULL,

`Property\_name` varchar(255) DEFAULT NULL,

`Property\_phone` varchar(15) DEFAULT NULL,

`Property\_email` varchar(255) DEFAULT NULL,

`Property\_country` varchar(50) DEFAULT NULL,

`Property\_address` varchar(255) DEFAULT NULL,

PRIMARY KEY (`Property\_ID`)

);

**ROOMS**

CREATE TABLE `rooms` (

`Room\_Type` varchar(50) NOT NULL,

`Property\_ID` int NOT NULL,

`Total\_Number\_of\_rooms` int NOT NULL,

`Price\_per\_night` decimal(10,2) DEFAULT NULL,

PRIMARY KEY (`Room\_Type`,`Property\_ID`),

KEY `Property\_ID` (`Property\_ID`),

CONSTRAINT `rooms\_ibfk\_1` FOREIGN KEY (`Property\_ID`) REFERENCES `property` (`Property\_ID`)

);

**RESERVATION**

CREATE TABLE `reservation` (

`Reservation\_Id` varchar(50) NOT NULL,

`Membership\_Id` varchar(50) DEFAULT NULL,

`Property\_ID` int DEFAULT NULL,

`Check\_in\_date` date DEFAULT NULL,

`Check\_out\_date` date DEFAULT NULL,

`Number\_of\_days\_booked` int GENERATED ALWAYS AS ((to\_days(`Check\_out\_date`) - to\_days(`Check\_in\_date`))) STORED,

`Number\_of\_rooms` int DEFAULT NULL,

`Room\_Type` varchar(50) DEFAULT NULL,

PRIMARY KEY (`Reservation\_Id`),

KEY `Membership\_Id` (`Membership\_Id`),

KEY `Property\_ID` (`Property\_ID`),

CONSTRAINT `reservation\_ibfk\_1` FOREIGN KEY (`Membership\_Id`) REFERENCES `accounts` (`Membership\_Id`),

CONSTRAINT `reservation\_ibfk\_2` FOREIGN KEY (`Property\_ID`) REFERENCES `property` (`Property\_ID`)

);

**TRANSACTIONS**

CREATE TABLE `transactions` (

`Transaction\_ID` varchar(50) NOT NULL,

`Membership\_Id` varchar(50) DEFAULT NULL,

`Reservation\_Id` varchar(50) DEFAULT NULL,

`Billing\_Currency` varchar(50) DEFAULT NULL,

`Billing\_Amount` decimal(10,2) DEFAULT NULL,

PRIMARY KEY (`Transaction\_ID`),

KEY `Membership\_Id` (`Membership\_Id`),

CONSTRAINT `transactions\_ibfk\_1` FOREIGN KEY (`Membership\_Id`) REFERENCES `reservation` (`Membership\_Id`)

);

**REVIEW**

CREATE TABLE `review` (

`Review\_ID` int NOT NULL,

`Reservation\_ID` varchar(50) DEFAULT NULL,

`Rating` int DEFAULT NULL,

`Comments` varchar(255) DEFAULT NULL,

PRIMARY KEY (`Review\_ID`),

KEY `Reservation\_ID` (`Reservation\_ID`),

CONSTRAINT `review\_ibfk\_1` FOREIGN KEY (`Reservation\_ID`) REFERENCES `reservation` (`Reservation\_Id`)

);

**REWARDS**

CREATE TABLE `rewards` (

`Reward\_ID` int NOT NULL,

`Membership\_Id` varchar(50) DEFAULT NULL,

`Transaction\_Id` varchar(50) DEFAULT NULL,

`Reward\_Description` varchar(255) DEFAULT 'Membership Rewards',

PRIMARY KEY (`Reward\_ID`),

KEY `Membership\_Id` (`Membership\_Id`),

KEY `Transaction\_Id` (`Transaction\_Id`),

CONSTRAINT `rewards\_ibfk\_1` FOREIGN KEY (`Membership\_Id`) REFERENCES `accounts` (`Membership\_Id`),

CONSTRAINT `rewards\_ibfk\_2` FOREIGN KEY (`Transaction\_Id`) REFERENCES `transactions` (`Transaction\_ID`)

);

**EXCHANGE RATE**

CREATE TABLE exchange\_rate (

Currency varchar(3) NOT NULL,

USD\_Amount decimal(10,4) DEFAULT NULL,

PRIMARY KEY (Currency)

);