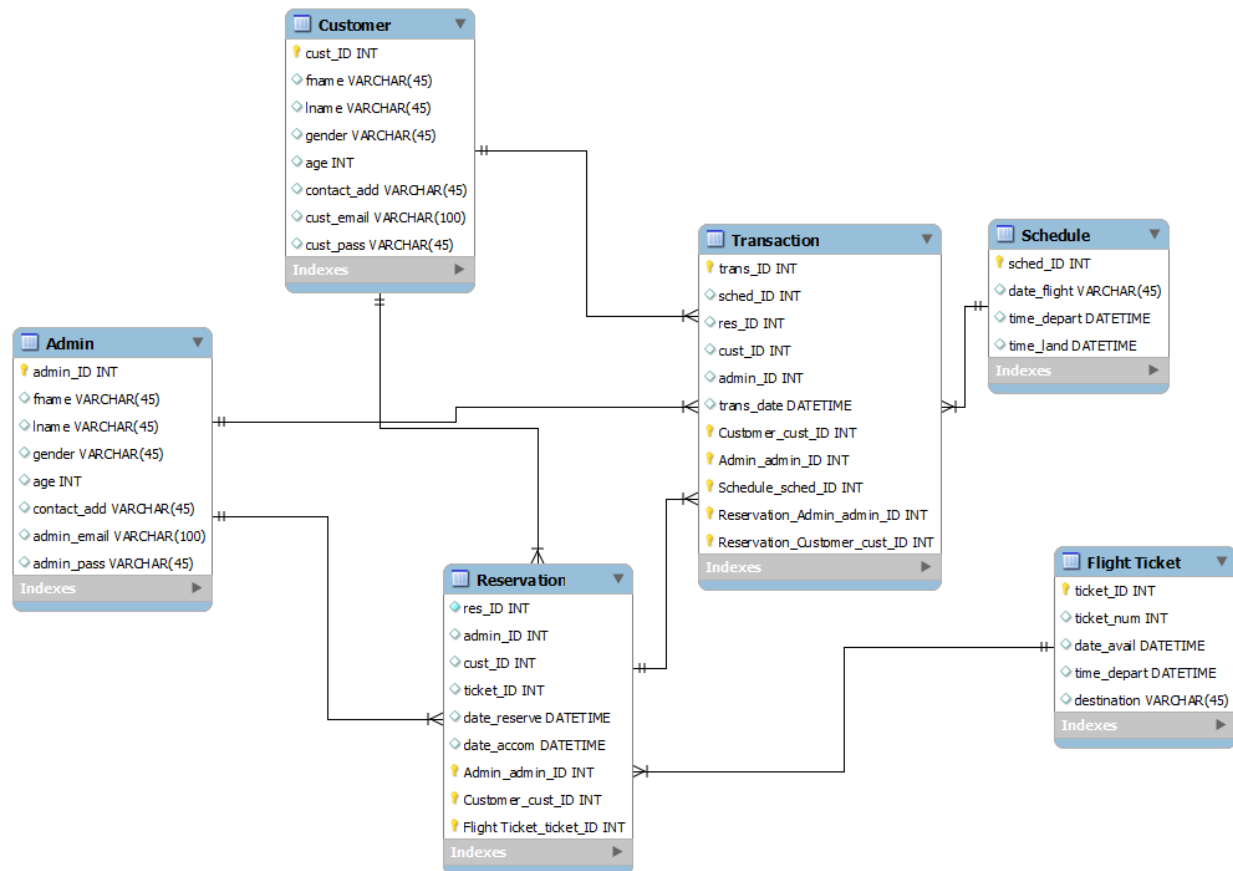


## FLIGHT RESERVATION SYSTEM

### ER DIAGRAM:



### CODE:

Table::Customer

```

CREATE TABLE Customer (
    `cust_ID` INT NOT NULL ,
    `fname` VARCHAR(45) NULL ,
    `lname` VARCHAR(45) NULL ,
    `gender` VARCHAR(45) NULL ,
    `age` INT NULL ,
    `contact_add` VARCHAR(45) NULL ,
    `cust_email` VARCHAR(100) NULL ,
    `cust_pass` VARCHAR(45) NULL ,
    PRIMARY KEY (`cust_ID`) );
    
```

Table::Admin

```

CREATE TABLE Admin (
    `admin_ID` INT NOT NULL ,
    `fname` VARCHAR(45) NULL ,
    
```

```

`lname` VARCHAR(45) NULL ,
`gender` VARCHAR(45) NULL ,
`age` INT NULL ,
`contact_add` VARCHAR(45) NULL ,
`admin_email` VARCHAR(100) NULL ,
`admin_pass` VARCHAR(45) NULL ,
PRIMARY KEY (`admin_ID`));

```

Table: Schedule

```

CREATE TABLE Schedule (
`sched_ID` INT NOT NULL ,
`date_flight` VARCHAR(45) NULL ,
`time_depart` DATETIME NULL ,
`time_land` DATETIME NULL ,
PRIMARY KEY (`sched_ID`));

```

Table: Flight Ticket

```

-----
CREATE TABLE Flight Ticket (
`ticket_ID` INT NOT NULL ,
`ticket_num` INT NULL ,
`date_avail` DATETIME NULL ,
`time_depart` DATETIME NULL ,
`destination` VARCHAR(45) NULL ,
PRIMARY KEY (`ticket_ID`));

```

Table: Reservation

```

CREATE TABLE Reservation (
`res_ID` INT NOT NULL ,
`admin_ID` INT NULL ,
`cust_ID` INT NULL ,
`ticket_ID` INT NULL ,
`date_reserve` DATETIME NULL ,
`date_accom` DATETIME NULL ,
`Admin_admin_ID` INT NOT NULL ,
`Customer_cust_ID` INT NOT NULL ,
`Flight Ticket_ticket_ID` INT NOT NULL ,
PRIMARY KEY (`Admin_admin_ID`, `Customer_cust_ID`, `Flight Ticket_ticket_ID`),
INDEX `fk_Reservation_Customer1_idx` (`Customer_cust_ID` ASC),
INDEX `fk_Reservation_Flight Ticket1_idx` (`Flight Ticket_ticket_ID` ASC),
CONSTRAINT `fk_Reservation_Admin1`
FOREIGN KEY (`Admin_admin_ID`)
REFERENCES `mydb`.`Admin` (`admin_ID`)
ON DELETE NO ACTION

```

```

    ON UPDATE NO ACTION,
CONSTRAINT `fk_Reservation_Customer1`
    FOREIGN KEY (`Customer_cust_ID` )
    REFERENCES `mydb`.`Customer` (`cust_ID` )
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
CONSTRAINT `fk_Reservation_Flight Ticket1`
    FOREIGN KEY (`Flight Ticket_ticket_ID` )
    REFERENCES `mydb`.`Flight Ticket` (`ticket_ID` )
    ON DELETE NO ACTION
    ON UPDATE NO ACTION);

```

Table: Transaction

```

CREATE TABLE Transaction (
    `trans_ID` INT NOT NULL ,
    `sched_ID` INT NULL ,
    `res_ID` INT NULL ,
    `cust_ID` INT NULL ,
    `admin_ID` INT NULL ,
    `trans_date` DATETIME NULL ,
    `Customer_cust_ID` INT NOT NULL ,
    `Admin_admin_ID` INT NOT NULL ,
    `Schedule_sched_ID` INT NOT NULL ,
    `Reservation_Admin_admin_ID` INT NOT NULL ,
    `Reservation_Customer_cust_ID` INT NOT NULL ,
    PRIMARY KEY (`trans_ID`, `Customer_cust_ID`, `Admin_admin_ID`, `Schedule_sched_ID`,
    `Reservation_Admin_admin_ID`, `Reservation_Customer_cust_ID`),
    INDEX `fk_Transaction_Customer_idx` (`Customer_cust_ID` ASC) ,
    INDEX `fk_Transaction_Admin1_idx` (`Admin_admin_ID` ASC) ,
    INDEX `fk_Transaction_Schedule1_idx` (`Schedule_sched_ID` ASC) ,
    INDEX `fk_Transaction_Reservation1_idx` (`Reservation_Admin_admin_ID` ASC,
    `Reservation_Customer_cust_ID` ASC) ,
    CONSTRAINT `fk_Transaction_Customer`
        FOREIGN KEY (`Customer_cust_ID` )
        REFERENCES `mydb`.`Customer` (`cust_ID` )
        ON DELETE NO ACTION
        ON UPDATE NO ACTION,
    CONSTRAINT `fk_Transaction_Admin1`
        FOREIGN KEY (`Admin_admin_ID` )
        REFERENCES `mydb`.`Admin` (`admin_ID` )
        ON DELETE NO ACTION
        ON UPDATE NO ACTION,
    CONSTRAINT `fk_Transaction_Schedule1`
        FOREIGN KEY (`Schedule_sched_ID` )

```

```
REFERENCES `mydb`.`Schedule` (`sched_ID` )  
ON DELETE NO ACTION  
ON UPDATE NO ACTION,  
CONSTRAINT `fk_Transaction_Reservation1`  
FOREIGN KEY (`Reservation_Admin_admin_ID` , `Reservation_Customer_cust_ID` )  
REFERENCES `mydb`.`Reservation` (`Admin_admin_ID` , `Customer_cust_ID` )  
ON DELETE NO ACTION  
ON UPDATE NO ACTION);
```