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INFO 6210 Database Management and Database Design, Section 6

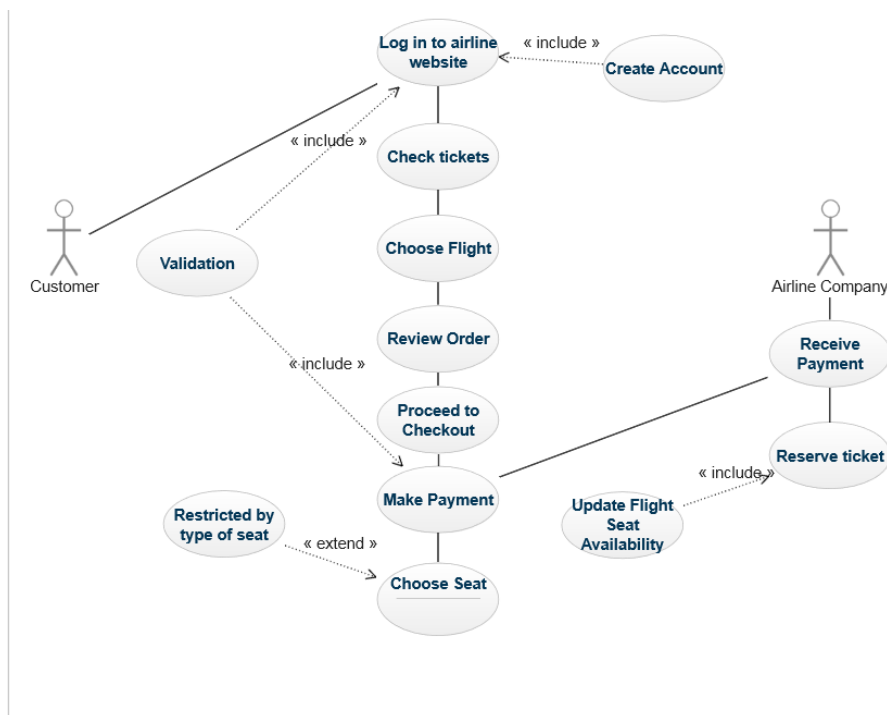
Final Project: Database for Airline Company

Project Goal:

The goal of the project is to build a database system for an airline company to manage its flight bookings, customers and schedules. It is a system which is dependent on time and money as customers will be paying to book their seat, so a relational database system is essential.

To manage thousands of transactions per day, avoid overbooking of flights and provide more flexibility to the customers an online Airline Reservation System is required.

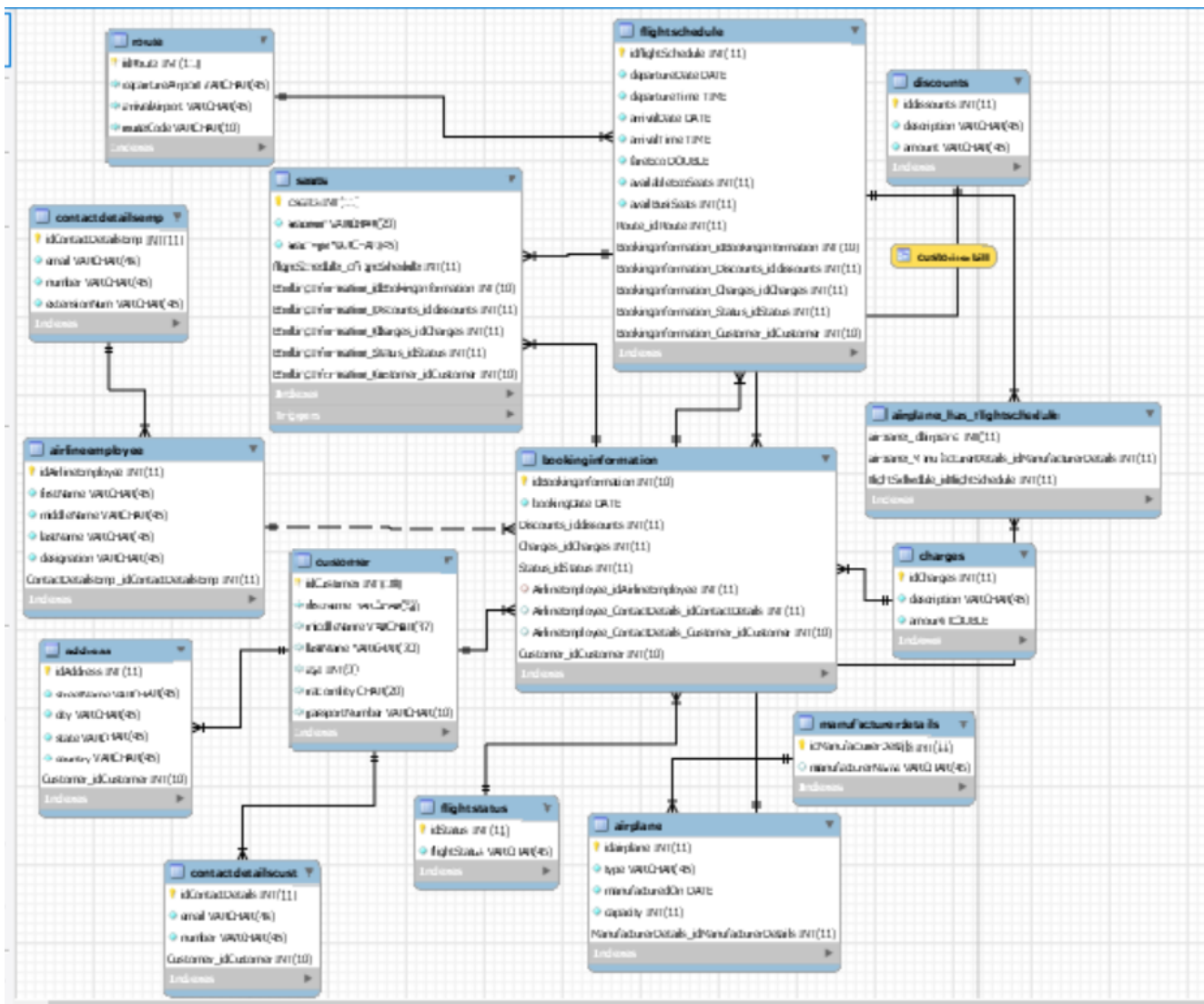
Use Case Diagram:



Users:

Customer: a customer will log into the airline website and book the seat according to his/her travel schedule.

Airline Company Employee: The seats need to be blocked while the user is in payment phase and reserved after payment has been received by the airline company. Sometimes booking



Screenshots:

1) TRIGGERS:

- a) On INSERT INTO seats table the total available seat for business or economy class in flightSchedule table decrements by one

```
CREATE TRIGGER Seat_Insert
AFTER INSERT
ON airlinecompanyschema.seats
FOR EACH ROW
BEGIN
    SET @newseatnum = NEW.flightSchedule_idflightSchedule;
    IF NEW.seatType = 'E' THEN
        UPDATE airlinecompanyschema.flightschedule SET availableEcoSeats =
            availableEcoSeats - 1
        WHERE flightSchedule.idflightSchedule = @newseatnum;
    ELSE
        UPDATE airlinecompanyschema.flightschedule SET availBusiSeats = availBusiSeats - 1
        WHERE flightSchedule.idflightSchedule = @newseatnum;
    END IF;
END;
$$
```

Table on which Event occurs: (seats)

	idseats	seatnum	seatType	flightSchedule_idflightSchedule	BookingInformation_idBookingInformation	BookingInformation
▶	1	A31	B	1	1	1
	2	A40	E	1	1	1
	3	B10	B	2	2	2
	4	B10	B	2	2	2
	5	C40	E	1	1	1

Before event table on which action will be taken: (flightSchedule)

idflightSchedule	departureDate	departureTime	arrivalDate	arrivalTime	fareEco	availableEcoSeats	availBusiSeats
1	2018-12-12	06:30:00	2018-12-13	06:00:00	2000	118	19
2	2018-12-16	08:00:00	2018-12-16	16:45:00	800	90	8
3	2018-12-18	09:00:00	2018-12-19	06:00:00	1500	50	5
4	2018-12-27	05:00:00	2018-12-28	22:00:00	1000	45	50
5	2018-12-29	06:30:00	2018-12-31	19:00:00	1200	29	17

After event:

INSERT INTO seats

VALUES (6,'F40','E',5,5,2,2,1,5);

idflightSchedule	departureDate	departureTime	arrivalDate	arrivalTime	fareEco	availableEcoSeats	availBusiSeats
1	2018-12-12	06:30:00	2018-12-13	06:00:00	2000	118	19
2	2018-12-16	08:00:00	2018-12-16	16:45:00	800	90	8
3	2018-12-18	09:00:00	2018-12-19	06:00:00	1500	50	5
4	2018-12-27	05:00:00	2018-12-28	22:00:00	1000	45	50
5	2018-12-29	06:30:00	2018-12-31	19:00:00	1200	28	17

- b) ON Update to type of seats in the seats table, the corresponding available seats in flightSchedule will increment or decrement accordingly

```

DELIMITER $$
CREATE TRIGGER Seat_Update
AFTER UPDATE
ON airlinecompanyschema.seats
FOR EACH ROW
BEGIN
    SET @newseatnum = NEW.flightSchedule_idflightSchedule;
    IF NEW.seatType = 'E' THEN
        UPDATE airlinecompanyschema.flightschedule
        SET     availableEcoSeats = availableEcoSeats - 1,
              availBusiSeats = availBusiSeats + 1
        WHERE flightSchedule.idflightSchedule = @newseatnum;
    ELSE
        UPDATE airlinecompanyschema.flightschedule
        SET     availableEcoSeats = availableEcoSeats + 1,
              availBusiSeats = availBusiSeats - 1
        WHERE flightSchedule.idflightSchedule = @newseatnum;
    END IF;
END;

```

Before Event : (flightSchedule)

idflightSchedule	departureDate	departureTime	arrivalDate	arrivalTime	fareEco	availableEcoSeats	availBusiSeats
1	2018-12-12	06:30:00	2018-12-13	06:00:00	2000	118	19
2	2018-12-16	08:00:00	2018-12-16	16:45:00	800	90	8
3	2018-12-18	09:00:00	2018-12-19	06:00:00	1500	50	5
4	2018-12-27	05:00:00	2018-12-28	22:00:00	1000	45	50
5	2018-12-29	06:30:00	2018-12-31	19:00:00	1200	28	17

After Event:

UPDATE seats
 SET seatType = "B"
 WHERE idseats = 6;

idflightSchedule	departureDate	departureTime	arrivalDate	arrivalTime	fareEco	availableEcoSeats	availBusiSeats
1	2018-12-12	06:30:00	2018-12-13	06:00:00	2000	119	18
2	2018-12-16	08:00:00	2018-12-16	16:45:00	800	90	8
3	2018-12-18	09:00:00	2018-12-19	06:00:00	1500	50	5
4	2018-12-27	05:00:00	2018-12-28	22:00:00	1000	45	50
5	2018-12-29	06:30:00	2018-12-31	19:00:00	1200	29	16

Seats table after trigger event:

idseats	seatnum	seatType	flightSchedule_idflightSchedule	BookingInformation_idBookingInformation	BookingInformation
1	A31	B	1	1	1
2	A40	E	1	1	1
3	B10	B	2	2	2
4	B10	B	2	2	2
5	C40	B	1	1	1
6	F40	B	5	5	2

2) USER DEFINED FUNCTIONS:

- a) `business_class_cost()`: This function can be used to calculate the cost of a seat of type business class by multiplying a number with the price of economy class ticket. This number and flight id is given as input to the function

```

DELIMITER $
CREATE FUNCTION business_class_cost(flightid int,multiplier double)
RETURNS DOUBLE
DETERMINISTIC
BEGIN
    DECLARE businessclassprize double;
    SELECT (fareEco*multiplier) INTO businessclassprize FROM flightschedule
    WHERE idflightSchedule = flightid;
    RETURN businessclassprize;
END;
$

```

Output: Calculating the cost for the business class ticket for flightId = 5 by multiplying with 4

```

66  set @id=5;
67  SELECT business_class_cost(5,4) AS Business_Seat_Cost
68  FROM flightschedule where idflightSchedule= @id;

```

Business_Seat_Cost
4800

- b) `flights_on_schedule()`: It calculates the number of flights which are currently scheduled by checking the status flag on every row in flightschedule table

```

70 DELIMITER $
71 CREATE FUNCTION flights_on_schedule()
72 RETURNS INT
73 DETERMINISTIC
74 BEGIN
75     DECLARE scheduledflights int;
76     SELECT COUNT(idflightSchedule) INTO scheduledflights FROM flightschedule
77     WHERE BookingInformation_Status_idStatus = 1;
78     RETURN scheduledflights;
79 END;
80 $
81
82 SELECT flights_on_schedule() AS TotalFlightsScheduled
83 FROM flightschedule WHERE idflightSchedule = 1;

```

Result Grid

TotalFlightsScheduled
5

3) **VIEW:** I am using a view to generate a customer bill for customer after considering any available discounts or extra charges

```

CREATE VIEW CustomerBill AS
SELECT customer.firstName, flightschedule.idflightSchedule, route.departureAirport,
route.arrivalAirport, flightschedule.fareEco, discounts.amount AS discountedPercent,
charges.amount AS chargedAmount,
(flightschedule.fareEco + charges.amount - ((discounts.amount/100)*flightschedule.fareEco))
AS TotalBill

FROM bookinginformation AS B
JOIN flightschedule ON idBookingInformation =
flightschedule.BookingInformation_idBookingInformation
JOIN charges ON B.Charges_idCharges = charges.idCharges
JOIN discounts ON B.Discounts_iddiscounts = discounts.iddiscounts
JOIN customer ON customer.idCustomer = B.Customer_idCustomer
JOIN route ON flightschedule.Route idRoute = route.idRoute:

```

Output: Generated Bill for every customer in the database

	firstName	idflightSchedule	departureAirport	arrivalAirport	fareEco	discountedPercent	chargedAmount	TotalBill
▶	Mit	1	Boston	Mumbai	2000	0	0	2000
	Krina	4	Boston	Mumbai	1000	10	120	1020
	Ajay	2	Mumbai	NewYork	800	5	30	790
	Ronak	3	Pune	London	1500	5	0	1425
	Xi	5	Boston	Mumbai	1200	5	100	1240

4) **STORED PROCEDURE:**

I have implemented a stored procedure for searching flights as searching for the best flight is a common application for most airline companies and that is what customers are looking

for. Here the function takes an input as a route number which contains the departure and arrival locations and returns all the flights with the same location with lowest fare first

```

103 • CREATE PROCEDURE SearchFlight(IN routeNumber INT)
104 BEGIN
105     SELECT f.idflightSchedule, r.departureAirport, r.arrivalAirport,
106           f.departureDate, f.departureTime, f.arrivalDate, f.arrivalTime, f.fareEco
107 FROM flightschedule AS f
108 INNER JOIN route AS r ON f.Route_idRoute = r.idRoute
109 WHERE idRoute = routeNumber
110 ORDER BY fareEco;
111 END;
112 $
113
114 • CALL SearchFlight(1);

```

Result Grid

	idflightSchedule	departureAirport	arrivalAirport	departureDate	departureTime	arrivalDate	arrivalTime	fareEco
▶	4	Boston	Mumbai	2018-12-27	05:00:00	2018-12-28	22:00:00	1000
	5	Boston	Mumbai	2018-12-29	06:30:00	2018-12-31	19:00:00	1200
	1	Boston	Mumbai	2018-12-12	06:30:00	2018-12-13	06:00:00	2000

5) USER PRIVILEGES:

```

CREATE USER 'customer1'@localhost identified by 'customer1';
GRANT SELECT ON CustomerBill to 'customer1'@localhost;
GRANT SELECT ON flightschedule to 'customer1'@localhost;

CREATE USER 'airlineemployee'@localhost identified by 'airlineemployee';
GRANT SELECT ON customer to 'airlineemployee'@localhost;
GRANT SELECT ON flightschedule to 'airlineemployee'@localhost;
GRANT SELECT ON bookinginformation to 'airlineemployee'@localhost;

```

Output: Here Customer has been given a privilege to access the view to generate final bill and flight schedule table. The airline employees have access to customer data, flight schedule and booking information.

Connection:

Name:

Host: localhost

Port: 3306

Server: MySQL Community Server - GPL

Version: 8.0.12

Connector: C++ 8.0.12

Login User: customer1

Current User: customer1@localhost

SSL: Using DHE-RSA-AES128-GCM-SHA256

- airlinecompanyschema
 - Tables
 - flightschedule
 - Views
 - customerbill
 - Stored Procedures
 - Functions

Information

Connection:
Name:
Host: localhost
Port: 3306
Server: MySQL Community Server - GPL
Version: 8.0.12
Connector: C++ 8.0.12
Login User: airlineemployee
Current User: airlineemployee@localhost
SSL: Using DHE-RSA-AES128-GCM-SHA256

airlinecompanyschema

Tables

bookinginformation

customer

flightschedule

Views

Stored Procedures

Functions

Object Info
Session

6) INDEX

I have added an index to fareEco column in flightschedule table, amount column in discount and charges table as these columns are used frequently for calculations and analysis.

a) CREATE INDEX fare_index ON flightschedule(fareEco) USING BTREE;

42 SHOW INDEX FROM flightschedule;

Table	Non_unique	Key_name	Seq_in_index	Column_name
flightschedule	0	PRIMARY	6	BookingInformation_Status_idStatus
flightschedule	0	PRIMARY	7	BookingInformation_Customer_idCu
flightschedule	1	fk_flightSchedule_Route1_idx	1	Route_idRoute
flightschedule	1	fk_flightSchedule_BookingInformation1_idx	1	BookingInformation_idBookingInform
flightschedule	1	fk_flightSchedule_BookingInformation1_idx	2	BookingInformation_Discounts_iddis
flightschedule	1	fk_flightSchedule_BookingInformation1_idx	3	BookingInformation_Charges_idChar
flightschedule	1	fk_flightSchedule_BookingInformation1_idx	4	BookingInformation_Status_idStatus
flightschedule	1	fk_flightSchedule_BookingInformation1_idx	5	BookingInformation_Customer_idCu
flightschedule	1	fare_index	1	fareEco

b) CREATE INDEX discount_index ON discounts(amount) USING BTREE;

42 SHOW INDEX FROM discounts;

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null
discounts	0	PRIMARY	1	iddiscounts	A	0	NULL	NULL	
discounts	1	discount_index	1	amount	A	3	NULL	NULL	

c) CREATE INDEX charges_index ON charges(amount) USING BTREE;

42 SHOW INDEX FROM charges;

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed
charges	0	PRIMARY	1	idCharges	A	0	NULL	NULL
charges	1	charges_index	1	amount	A	4	NULL	NULL

7) TRANSACTIONS

- a) READ WRITE to insert new seats in seat table as per booking

```
SET TRANSACTION READ WRITE;  
BEGIN;  
INSERT INTO seats  
VALUES (7, 'P10', 'E', 5, 5, 2, 2, 1, 5);  
SELECT * FROM seats;  
COMMIT;
```

	idseats	seatnum	seatType	flightSchedule_idflightSchedule	BookingInformation_idBookingInformation	BookingInformation
1		A31	B	1	1	1
2		A40	E	1	1	1
3		B10	B	2	2	2
4		B10	B	2	2	2
5		C40	B	1	1	1
6		F40	B	5	5	2
7		P10	E	5	5	2

- b) READ ONLY access as user should not be able to edit flight schedule information

```
SET TRANSACTION READ ONLY;  
BEGIN;  
SELECT * FROM flightschedule;  
COMMIT;
```

	idflightSchedule	departureDate	departureTime	arrivalDate	arrivalTime	fareEco	availableEcoSeats	availBusiSeats
▶	1	2018-12-12	06:30:00	2018-12-13	06:00:00	2000	119	18
	2	2018-12-16	08:00:00	2018-12-16	16:45:00	800	90	8
	3	2018-12-18	09:00:00	2018-12-19	06:00:00	1500	50	5
	4	2018-12-27	05:00:00	2018-12-28	22:00:00	1000	45	50
	5	2018-12-29	06:30:00	2018-12-31	19:00:00	1200	28	16

APPENDIX

```
-- MySQL dump 10.13 Distrib 8.0.12, for Win64 (x86_64)
--
-- Host: localhost Database: airlinecompanyschema
--
-- Server version 8.0.12

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
SET NAMES utf8 ;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `address`
--

DROP TABLE IF EXISTS `address`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `address` (
  `idAddress` int(11) NOT NULL,
  `streetName` varchar(45) NOT NULL,
  `city` varchar(45) NOT NULL,
  `state` varchar(45) NOT NULL,
  `country` varchar(45) NOT NULL,
  `Customer_idCustomer` int(10) unsigned NOT NULL,
  PRIMARY KEY (`idAddress`,`Customer_idCustomer`),
  KEY `fk_Address_Customer1_idx` (`Customer_idCustomer`),
  CONSTRAINT `fk_Address_Customer1` FOREIGN KEY (`Customer_idCustomer`) REFERENCES
`customer` (`idcustomer`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--  
-- Dumping data for table `address`  
--
```

```
LOCK TABLES `address` WRITE;  
/*!40000 ALTER TABLE `address` DISABLE KEYS */;  
INSERT INTO `address` VALUES (1,'1171 boylston st','Boston','MA','USA',1),(2,'New Link  
Road','Mumbai','MH','India',2),(3,'S V Road','Mumbai','MH','Indian',3),(4,'Park  
Drive','Boston','MA','USA',4),(5,'Mission Main','Boston','MA','USA',5);  
/*!40000 ALTER TABLE `address` ENABLE KEYS */;  
UNLOCK TABLES;
```

```
--  
-- Table structure for table `airlineemployee`  
--
```

```
DROP TABLE IF EXISTS `airlineemployee`;  
/*!40101 SET @saved_cs_client = @@character_set_client */;  
SET character_set_client = utf8mb4 ;  
CREATE TABLE `airlineemployee` (  
  `idAirlineEmployee` int(11) NOT NULL,  
  `firstName` varchar(45) NOT NULL,  
  `middleName` varchar(45) NOT NULL,  
  `lastName` varchar(45) NOT NULL,  
  `designation` varchar(45) NOT NULL,  
  `ContactDetailsEmp_idContactDetailsEmp` int(11) NOT NULL,  
  PRIMARY KEY (`idAirlineEmployee`,`ContactDetailsEmp_idContactDetailsEmp`),  
  KEY `fk_AirlineEmployee_ContactDetailsEmp1_idx`  
  (`ContactDetailsEmp_idContactDetailsEmp`),  
  CONSTRAINT `fk_AirlineEmployee_ContactDetailsEmp1` FOREIGN KEY  
  (`ContactDetailsEmp_idContactDetailsEmp`) REFERENCES `contactdetailsemp`  
  (`idcontactdetailsemp`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;  
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--  
-- Dumping data for table `airlineemployee`  
--
```

```
LOCK TABLES `airlineemployee` WRITE;  
/*!40000 ALTER TABLE `airlineemployee` DISABLE KEYS */;  
INSERT INTO `airlineemployee` VALUES  
(1,'Max','Harry','Potter','Agent',1),(2,'Peter','Robert','comey','Agent',2),(3,'Sam','Ravi','Weasl  
ey','Agent',3);
```

```

/*!40000 ALTER TABLE `airlineemployee` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `airplane`
--

DROP TABLE IF EXISTS `airplane`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `airplane` (
  `idairplane` int(11) NOT NULL,
  `type` varchar(45) NOT NULL,
  `manufacturedOn` date NOT NULL,
  `capacity` int(11) NOT NULL,
  `ManufacturerDetails_idManufacturerDetails` int(11) NOT NULL,
  PRIMARY KEY (`idairplane`,`ManufacturerDetails_idManufacturerDetails`),
  KEY `fk_airplane_ManufacturerDetails1_idx`
  (`ManufacturerDetails_idManufacturerDetails`),
  CONSTRAINT `fk_airplane_ManufacturerDetails1` FOREIGN KEY
  (`ManufacturerDetails_idManufacturerDetails`) REFERENCES `manufacturerdetails`
  (`idmanufacturerdetails`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `airplane`
--

LOCK TABLES `airplane` WRITE;
/*!40000 ALTER TABLE `airplane` DISABLE KEYS */;
INSERT INTO `airplane` VALUES (1,'Aribus313','2008-11-11',140,1),(2,'Boeing 777','2012-12-
03',130,2),(3,'Airbus 311','2017-01-12',150,3);
/*!40000 ALTER TABLE `airplane` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `airplane_has_flightschedule`
--

DROP TABLE IF EXISTS `airplane_has_flightschedule`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `airplane_has_flightschedule` (

```

```

`airplane_idairplane` int(11) NOT NULL,
`airplane_ManufacturerDetails_idManufacturerDetails` int(11) NOT NULL,
`flightSchedule_idflightSchedule` int(11) NOT NULL,
PRIMARY KEY
(`airplane_idairplane`,`airplane_ManufacturerDetails_idManufacturerDetails`,`flightSchedule_idflightSchedule`),
KEY `fk_airplane_has_flightSchedule_flightSchedule1_idx`
(`flightSchedule_idflightSchedule`),
KEY `fk_airplane_has_flightSchedule_airplane1_idx`
(`airplane_idairplane`,`airplane_ManufacturerDetails_idManufacturerDetails`),
CONSTRAINT `fk_airplane_has_flightSchedule_airplane1` FOREIGN KEY
(`airplane_idairplane`,`airplane_ManufacturerDetails_idManufacturerDetails`) REFERENCES
`airplane` (`idairplane`,`manufacturerdetails_idmanufacturerdetails`),
CONSTRAINT `fk_airplane_has_flightSchedule_flightSchedule1` FOREIGN KEY
(`flightSchedule_idflightSchedule`) REFERENCES `flightschedule` (`idflightSchedule`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `airplane_has_flightschedule`
--

LOCK TABLES `airplane_has_flightschedule` WRITE;
/*!40000 ALTER TABLE `airplane_has_flightschedule` DISABLE KEYS */;
/*!40000 ALTER TABLE `airplane_has_flightschedule` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `bookinginformation`
--

DROP TABLE IF EXISTS `bookinginformation`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `bookinginformation` (
  `idBookingInformation` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `bookingDate` date NOT NULL,
  `Discounts_iddiscounts` int(11) NOT NULL,
  `Charges_idCharges` int(11) NOT NULL,
  `Status_idStatus` int(11) NOT NULL,
  `AirlineEmployee_idAirlineEmployee` int(11) DEFAULT NULL,
  `AirlineEmployee_ContactDetails_idContactDetails` int(11) DEFAULT NULL,
  `AirlineEmployee_ContactDetails_Customer_idCustomer` int(10) unsigned DEFAULT NULL,
  `Customer_idCustomer` int(10) unsigned NOT NULL,

```

```

PRIMARY KEY
(`idBookingInformation`,`Discounts_idDiscounts`,`Charges_idCharges`,`Status_idStatus`,`Customer_idCustomer`),
KEY `fk_BookingInformation_Discounts1_idx` (`Discounts_idDiscounts`),
KEY `fk_BookingInformation_Charges1_idx` (`Charges_idCharges`),
KEY `fk_BookingInformation_Status1_idx` (`Status_idStatus`),
KEY `fk_BookingInformation_AirlineEmployee1_idx`
(`AirlineEmployee_idAirlineEmployee`,`AirlineEmployee_ContactDetails_idContactDetails`,`AirlineEmployee_ContactDetails_Customer_idCustomer`),
KEY `fk_BookingInformation_Customer1_idx` (`Customer_idCustomer`),
CONSTRAINT `fk_BookingInformation_AirlineEmployee1` FOREIGN KEY
(`AirlineEmployee_idAirlineEmployee`) REFERENCES `airlineemployee` (`idairlineemployee`),
CONSTRAINT `fk_BookingInformation_Charges1` FOREIGN KEY (`Charges_idCharges`)
REFERENCES `charges` (`idcharges`),
CONSTRAINT `fk_BookingInformation_Customer1` FOREIGN KEY (`Customer_idCustomer`)
REFERENCES `customer` (`idcustomer`),
CONSTRAINT `fk_BookingInformation_Discounts1` FOREIGN KEY (`Discounts_idDiscounts`)
REFERENCES `discounts` (`iddiscounts`),
CONSTRAINT `fk_BookingInformation_Status1` FOREIGN KEY (`Status_idStatus`)
REFERENCES `flightstatus` (`idstatus`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `bookinginformation`
--

LOCK TABLES `bookinginformation` WRITE;
/*!40000 ALTER TABLE `bookinginformation` DISABLE KEYS */;
INSERT INTO `bookinginformation` VALUES (1,'2018-11-11',1,1,1,1,1,1),(2,'2018-05-11',2,3,1,2,2,2),(3,'2018-03-12',2,1,1,3,3,3),(4,'2018-12-13',3,4,1,1,1,4),(5,'2018-12-13',2,2,1,2,2,5);
/*!40000 ALTER TABLE `bookinginformation` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `charges`
--

DROP TABLE IF EXISTS `charges`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `charges` (
  `idCharges` int(11) NOT NULL,

```



```

`description` varchar(45) NOT NULL,
`amount` double NOT NULL,
PRIMARY KEY (`idCharges`),
KEY `charges_index` (`amount`) USING BTREE
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `charges`
--

LOCK TABLES `charges` WRITE;
/*!40000 ALTER TABLE `charges` DISABLE KEYS */;
INSERT INTO `charges` VALUES (1,'No Charge',0),(2,'Meal Option',100),(3,'Overweight
Luggage',30),(4,'Extra bags',120);
/*!40000 ALTER TABLE `charges` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `contactdetailscust`
--

DROP TABLE IF EXISTS `contactdetailscust`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `contactdetailscust` (
  `idContactDetails` int(11) NOT NULL,
  `email` varchar(45) NOT NULL,
  `number` varchar(45) CHARACTER SET utf8 COLLATE utf8_bin NOT NULL,
  `Customer_idCustomer` int(10) unsigned NOT NULL,
  PRIMARY KEY (`idContactDetails`,`Customer_idCustomer`),
  KEY `fk_ContactDetailsCust_Customer1_idx` (`Customer_idCustomer`),
  CONSTRAINT `fk_ContactDetailsCust_Customer1` FOREIGN KEY (`Customer_idCustomer`)
REFERENCES `customer` (`idcustomer`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `contactdetailscust`
--

LOCK TABLES `contactdetailscust` WRITE;
/*!40000 ALTER TABLE `contactdetailscust` DISABLE KEYS */;

```

```
INSERT INTO `contactdetailscust` VALUES
(1,'mit@gmail.com','9834782938',1),(2,'ajay@gmail.com','9837458372',2),(3,'ronak@hotmail.com','9837458291',3),(4,'krina@yahoo.com','8737465245',4),(5,'xi@gmail.com','9837465243',5);
/*!40000 ALTER TABLE `contactdetailscust` ENABLE KEYS */;
UNLOCK TABLES;
```

```
--
-- Table structure for table `contactdetailsemp`
--
```

```
DROP TABLE IF EXISTS `contactdetailsemp`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `contactdetailsemp` (
  `idContactDetailsEmp` int(11) NOT NULL,
  `email` varchar(45) NOT NULL,
  `number` varchar(45) NOT NULL,
  `extensionNum` varchar(45) NOT NULL,
  PRIMARY KEY (`idContactDetailsEmp`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
-- Dumping data for table `contactdetailsemp`
--
```

```
LOCK TABLES `contactdetailsemp` WRITE;
/*!40000 ALTER TABLE `contactdetailsemp` DISABLE KEYS */;
INSERT INTO `contactdetailsemp` VALUES
(1,'max@gmail.com','9837645276','098'),(2,'peter@hotmail.com','8273652745','001'),(3,'sam@hotmail.com','9847652364','337');
/*!40000 ALTER TABLE `contactdetailsemp` ENABLE KEYS */;
UNLOCK TABLES;
```

```
--
-- Table structure for table `customer`
--
```

```
DROP TABLE IF EXISTS `customer`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `customer` (
  `idCustomer` int(10) unsigned NOT NULL AUTO_INCREMENT,
```

```

`firstName` varchar(32) NOT NULL,
`middleName` varchar(32) DEFAULT NULL,
`lastName` varchar(32) DEFAULT NULL,
`age` int(3) DEFAULT NULL,
`nationality` char(20) DEFAULT NULL,
`passportNumber` varchar(10) DEFAULT NULL,
PRIMARY KEY (`idCustomer`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `customer`
--

LOCK TABLES `customer` WRITE;
/*!40000 ALTER TABLE `customer` DISABLE KEYS */;
INSERT INTO `customer` VALUES
(1,'Mit','Dev','Katwala',23,'Indian','M908374652'),(2,'Ajay','Mohan','Das',24,'Indian','M98475
9274'),(3,'Ronak','S','Parkhiya',25,'Indian','M918438180'),(4,'Krina','D','Mehta',24,'Indian','M
983467581'),(5,'Xi','M','Chang',19,'Chinese','C983492042');
/*!40000 ALTER TABLE `customer` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Temporary view structure for view `customerbill`
--

DROP TABLE IF EXISTS `customerbill`;
/*!50001 DROP VIEW IF EXISTS `customerbill`*/;
SET @saved_cs_client = @@character_set_client;
SET character_set_client = utf8mb4;
/*!50001 CREATE VIEW `customerbill` AS SELECT
1 AS `firstName`,
1 AS `idflightSchedule`,
1 AS `departureAirport`,
1 AS `arrivalAirport`,
1 AS `fareEco`,
1 AS `discountedPercent`,
1 AS `chargedAmount`,
1 AS `TotalBill`*/;
SET character_set_client = @saved_cs_client;

--
-- Table structure for table `discounts`

```

--

```
DROP TABLE IF EXISTS `discounts`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `discounts` (
  `iddiscounts` int(11) NOT NULL,
  `description` varchar(45) NOT NULL,
  `amount` varchar(45) NOT NULL,
  PRIMARY KEY (`iddiscounts`),
  KEY `discount_index` (`amount`) USING BTREE
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
```

--

-- Dumping data for table `discounts`

--

```
LOCK TABLES `discounts` WRITE;
/*!40000 ALTER TABLE `discounts` DISABLE KEYS */;
INSERT INTO `discounts` VALUES (1,'No Discount','0'),(2,'Festivaltime','5'),(3,'Infant less than
18 years old','10');
/*!40000 ALTER TABLE `discounts` ENABLE KEYS */;
UNLOCK TABLES;
```

--

-- Table structure for table `flightschedule`

--

```
DROP TABLE IF EXISTS `flightschedule`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `flightschedule` (
  `idflightSchedule` int(11) NOT NULL,
  `departureDate` date NOT NULL,
  `departureTime` time NOT NULL,
  `arrivalDate` date NOT NULL,
  `arrivalTime` time NOT NULL,
  `fareEco` double NOT NULL,
  `availableEcoSeats` int(11) NOT NULL,
  `availBusiSeats` int(11) NOT NULL,
  `Route_idRoute` int(11) NOT NULL,
  `BookingInformation_idBookingInformation` int(10) unsigned NOT NULL,
  `BookingInformation_Discounts_iddiscounts` int(11) NOT NULL,
```

```

`BookingInformation_Charges_idCharges` int(11) NOT NULL,
`BookingInformation_Status_idStatus` int(11) NOT NULL,
`BookingInformation_Customer_idCustomer` int(10) unsigned NOT NULL,
PRIMARY KEY
(`idflightSchedule`,`Route_idRoute`,`BookingInformation_idBookingInformation`,`BookingInf
ormation_Discounts_iddiscounts`,`BookingInformation_Charges_idCharges`,`BookingInform
ation_Status_idStatus`,`BookingInformation_Customer_idCustomer`),
KEY `fk_flightSchedule_Route1_idx` (`Route_idRoute`),
KEY `fk_flightSchedule_BookingInformation1_idx`
(`BookingInformation_idBookingInformation`,`BookingInformation_Discounts_iddiscounts`,`
BookingInformation_Charges_idCharges`,`BookingInformation_Status_idStatus`,`BookingInf
ormation_Customer_idCustomer`),
KEY `fare_index` (`fareEco`) USING BTREE,
CONSTRAINT `fk_flightSchedule_BookingInformation1` FOREIGN KEY
(`BookingInformation_idBookingInformation`,`BookingInformation_Discounts_iddiscounts`,`
`BookingInformation_Charges_idCharges`,`BookingInformation_Status_idStatus`,`
`BookingInformation_Customer_idCustomer`) REFERENCES `bookinginformation`
(`idbookinginformation`,`discounts_iddiscounts`,`charges_idcharges`,`status_idstatus`,
`customer_idcustomer`),
CONSTRAINT `fk_flightSchedule_Route1` FOREIGN KEY (`Route_idRoute`) REFERENCES
`route` (`idroute`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Dumping data for table `flightschedule`
--

```

```

LOCK TABLES `flightschedule` WRITE;
/*!40000 ALTER TABLE `flightschedule` DISABLE KEYS */;
INSERT INTO `flightschedule` VALUES (1,'2018-12-12','06:30:00','2018-12-
13','06:00:00',2000,119,18,1,1,1,1,1,1),(2,'2018-12-16','08:00:00','2018-12-
16','16:45:00',800,90,8,2,2,2,3,1,2),(3,'2018-12-18','09:00:00','2018-12-
19','06:00:00',1500,50,5,3,3,2,1,1,3),(4,'2018-12-27','05:00:00','2018-12-
28','22:00:00',1000,45,50,1,4,3,4,1,4),(5,'2018-12-29','06:30:00','2018-12-
31','19:00:00',1200,29,16,1,5,2,2,1,5);
/*!40000 ALTER TABLE `flightschedule` ENABLE KEYS */;
UNLOCK TABLES;

```

```

--
-- Table structure for table `flightstatus`
--

```

```

DROP TABLE IF EXISTS `flightstatus`;

```

```

/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `flightstatus` (
  `idStatus` int(11) NOT NULL,
  `flightStatus` varchar(45) NOT NULL,
  PRIMARY KEY (`idStatus`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `flightstatus`
--

LOCK TABLES `flightstatus` WRITE;
/*!40000 ALTER TABLE `flightstatus` DISABLE KEYS */;
INSERT INTO `flightstatus` VALUES (1,'Schedule'),(2,'Cancelled');
/*!40000 ALTER TABLE `flightstatus` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `manufacturerdetails`
--

DROP TABLE IF EXISTS `manufacturerdetails`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `manufacturerdetails` (
  `idManufacturerDetails` int(11) NOT NULL,
  `manufacturerName` varchar(45) DEFAULT NULL,
  PRIMARY KEY (`idManufacturerDetails`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `manufacturerdetails`
--

LOCK TABLES `manufacturerdetails` WRITE;
/*!40000 ALTER TABLE `manufacturerdetails` DISABLE KEYS */;
INSERT INTO `manufacturerdetails` VALUES (1,'Raytheon'),(2,'Safran'),(3,'Leonardo');
/*!40000 ALTER TABLE `manufacturerdetails` ENABLE KEYS */;
UNLOCK TABLES;

--

```


-- Table structure for table `route`

--

```
DROP TABLE IF EXISTS `route`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `route` (
  `idRoute` int(11) NOT NULL,
  `departureAirport` varchar(45) NOT NULL,
  `arrivalAirport` varchar(45) NOT NULL,
  `routeCode` varchar(10) NOT NULL,
  PRIMARY KEY (`idRoute`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
```

--

-- Dumping data for table `route`

--

```
LOCK TABLES `route` WRITE;
/*!40000 ALTER TABLE `route` DISABLE KEYS */;
INSERT INTO `route` VALUES
(1,'Boston','Mumbai','BOS123'),(2,'Mumbai','NewYork','MUM909'),(3,'Pune','London','MUM
889');
/*!40000 ALTER TABLE `route` ENABLE KEYS */;
UNLOCK TABLES;
```

--

-- Table structure for table `seats`

--

```
DROP TABLE IF EXISTS `seats`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
SET character_set_client = utf8mb4 ;
CREATE TABLE `seats` (
  `idseats` int(11) NOT NULL,
  `seatnum` varchar(20) NOT NULL,
  `seatType` varchar(45) NOT NULL,
  `flightSchedule_idflightSchedule` int(11) NOT NULL,
  `BookingInformation_idBookingInformation` int(10) unsigned NOT NULL,
  `BookingInformation_Discounts_iddiscounts` int(11) NOT NULL,
  `BookingInformation_Charges_idCharges` int(11) NOT NULL,
  `BookingInformation_Status_idStatus` int(11) NOT NULL,
  `BookingInformation_Customer_idCustomer` int(10) unsigned NOT NULL,
```

```

PRIMARY KEY
(`idseats`,`flightSchedule_idflightSchedule`,`BookingInformation_idBookingInformation`,`Bo
okingInformation_Discounts_iddiscounts`,`BookingInformation_Charges_idCharges`,`Bookin
gInformation_Status_idStatus`,`BookingInformation_Customer_idCustomer`),
  KEY `fk_seats_flightSchedule1_idx` (`flightSchedule_idflightSchedule`),
  KEY `fk_seats_BookingInformation1_idx`
(`BookingInformation_idBookingInformation`,`BookingInformation_Discounts_iddiscounts`,`
BookingInformation_Charges_idCharges`,`BookingInformation_Status_idStatus`,`BookingInf
ormation_Customer_idCustomer`),
  CONSTRAINT `fk_seats_BookingInformation1` FOREIGN KEY
(`BookingInformation_idBookingInformation`,`BookingInformation_Discounts_iddiscounts`,`
BookingInformation_Charges_idCharges`,`BookingInformation_Status_idStatus`,`
BookingInformation_Customer_idCustomer`) REFERENCES `bookinginformation`
(`idbookinginformation`,`discounts_iddiscounts`,`charges_idcharges`,`status_idstatus`,`
customer_idcustomer`),
  CONSTRAINT `fk_seats_flightSchedule1` FOREIGN KEY (`flightSchedule_idflightSchedule`)
REFERENCES `flightschedule` (`idflightSchedule`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `seats`
--

LOCK TABLES `seats` WRITE;
/*!40000 ALTER TABLE `seats` DISABLE KEYS */;
INSERT INTO `seats` VALUES
(1,'A31','B',1,1,1,1,1),(2,'A40','E',1,1,1,1,1),(3,'B10','B',2,2,2,3,1,2),(4,'B10','B',2,2,2,3,1,2),
(5,'C40','B',1,1,1,1,1),(6,'F40','B',5,5,2,2,1,5);
/*!40000 ALTER TABLE `seats` ENABLE KEYS */;
UNLOCK TABLES;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode       = @@sql_mode */;
/*!50003 SET sql_mode              = 'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`Seat_Insert` AFTER INSERT ON `seats` FOR EACH ROW BEGIN
  SET @newseatnum = NEW.flightSchedule_idflightSchedule;
  IF NEW.seatType = 'E' THEN

```

```

UPDATE
airlinecompanyschema.flightschedule SET availableEcoSeats = availableEcoSeats - 1
WHERE flightSchedule.idflightSchedule
= @newseatnum;
ELSE

UPDATE
airlinecompanyschema.flightschedule SET availBusiSeats = availBusiSeats - 1
WHERE flightSchedule.idflightSchedule
= @newseatnum;
END IF;
END *;;
DELIMITER ;
/*!50003 SET sql_mode          = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`Seat_Update` AFTER UPDATE ON `seats` FOR EACH ROW BEGIN
SET @newseatnum =
NEW.flightSchedule_idflightSchedule;
IF NEW.seatType = 'E' THEN
UPDATE airlinecompanyschema.flightschedule
SET availableEcoSeats = availableEcoSeats - 1,
    availBusiSeats = availBusiSeats + 1
WHERE flightSchedule.idflightSchedule
= @newseatnum;
ELSE
UPDATE airlinecompanyschema.flightschedule
SET availableEcoSeats = availableEcoSeats + 1,
    availBusiSeats = availBusiSeats
- 1
WHERE flightSchedule.idflightSchedule
= @newseatnum;
END IF;
END *;;

```

```

DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */;
/*!50003 SET character_set_client = @saved_cs_client */;
/*!50003 SET character_set_results = @saved_cs_results */;
/*!50003 SET collation_connection = @saved_col_connection */;

--
-- Dumping events for database 'airlinecompanyschema'
--

--
-- Dumping routines for database 'airlinecompanyschema'
--
/*!50003 DROP FUNCTION IF EXISTS `business_class_cost` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */;
/*!50003 SET @saved_sql_mode       = @@sql_mode */;
/*!50003 SET sql_mode              = 'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` FUNCTION `business_class_cost`(flightid int,multiplier
double) RETURNS double
    DETERMINISTIC
BEGIN
    DECLARE businessclassprize double;

    SELECT (fareEco*multiplier) INTO businessclassprize FROM flightschedule
    WHERE idflightSchedule = flightid;
    RETURN businessclassprize;
END ;;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */;
/*!50003 SET character_set_client = @saved_cs_client */;
/*!50003 SET character_set_results = @saved_cs_results */;
/*!50003 SET collation_connection = @saved_col_connection */;
/*!50003 DROP FUNCTION IF EXISTS `flights_on_schedule` */;
/*!50003 SET @saved_cs_client      = @@character_set_client */;
/*!50003 SET @saved_cs_results     = @@character_set_results */;
/*!50003 SET @saved_col_connection = @@collation_connection */;
/*!50003 SET character_set_client  = utf8mb4 */;
/*!50003 SET character_set_results = utf8mb4 */;
/*!50003 SET collation_connection  = utf8mb4_0900_ai_ci */;

```

```

/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` FUNCTION `flights_on_schedule`() RETURNS int(11)
    DETERMINISTIC
BEGIN
    DECLARE scheduledflights int;

    SELECT COUNT(idflightSchedule) INTO scheduledflights FROM flightsschedule
    WHERE BookingInformation_Status_idStatus = 1;
    RETURN scheduledflights;
END ;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 DROP PROCEDURE IF EXISTS `SearchFlight` */ ;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = utf8mb4 */ ;
/*!50003 SET character_set_results = utf8mb4 */ ;
/*!50003 SET collation_connection = utf8mb4_0900_ai_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode              = 'STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
CREATE DEFINER=`root`@`localhost` PROCEDURE `SearchFlight`(IN routeNumber INT)
BEGIN
    SELECT f.idflightSchedule,
    r.departureAirport, r.arrivalAirport, f.departureDate, f.departureTime, f.arrivalDate,
    f.arrivalTime, f.fareEco
    FROM flightsschedule AS f
    INNER JOIN route AS r ON f.Route_idRoute
    = r.idRoute
    WHERE idRoute = routeNumber
    ORDER BY fareEco;
END ;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
--

```

-- Final view structure for view `customerbill`

--

```
/*!50001 DROP VIEW IF EXISTS `customerbill`*/;
/*!50001 SET @saved_cs_client      = @@character_set_client */;
/*!50001 SET @saved_cs_results    = @@character_set_results */;
/*!50001 SET @saved_col_connection = @@collation_connection */;
/*!50001 SET character_set_client  = utf8mb4 */;
/*!50001 SET character_set_results = utf8mb4 */;
/*!50001 SET collation_connection = utf8mb4_0900_ai_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `customerbill` AS select `customer`.`firstName` AS
`firstName`,`flightschedule`.`idflightSchedule` AS
`idflightSchedule`,`route`.`departureAirport` AS `departureAirport`,`route`.`arrivalAirport`
AS `arrivalAirport`,`flightschedule`.`fareEco` AS `fareEco`,`discounts`.`amount` AS
`discountedPercent`,`charges`.`amount` AS `chargedAmount`,((`flightschedule`.`fareEco` +
`charges`.`amount`) - ((`discounts`.`amount` / 100) * `flightschedule`.`fareEco`)) AS
`TotalBill` from ((((`bookinginformation` `b` join `flightschedule`
on((`b`.`idBookingInformation` =
`flightschedule`.`BookingInformation_idBookingInformation`))) join `charges`
on((`b`.`Charges_idCharges` = `charges`.`idCharges`))) join `discounts`
on((`b`.`Discounts_iddiscounts` = `discounts`.`iddiscounts`))) join `customer`
on((`customer`.`idCustomer` = `b`.`Customer_idCustomer`))) join `route`
on((`flightschedule`.`Route_idRoute` = `route`.`idRoute`))) */;
/*!50001 SET character_set_client  = @saved_cs_client */;
/*!50001 SET character_set_results = @saved_cs_results */;
/*!50001 SET collation_connection = @saved_col_connection */;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```

-- Dump completed on 2018-12-13 5:07:31



finalBackup.sql



finalER.mwb