

Airline Reservation System: Data Dictionary & SQL Code

Juan B. Del Villar

Wilson Lu

Department of Information Systems, California State University, Los Angeles

CIS 3050 Database Design and Development

Dr. Shilpa Balan

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Part A

DATA DICTIONARY

TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	RANGE	REQUIRED	PK OR FK	FK REFERENCED TABLE
ADMINISTRATORS	ADMIN_ID	Admin unique ID	INT(10)	9999	1000-1999	Y	PK	
	ADMIN_LASTNAME	Admin last name	VARCHAR(20)	Xxxxxxxxxx		Y		
	ADMIN_FIRSTNAME	Admin first name	VARCHAR(20)	Xxxxxxxxxx		Y		
	ADMIN_MIDDLENAME	Admin middle name	VARCHAR(20)	Xxxxxxxxxx				
	ADMIN_PHONE	Admin phone number	VARCHAR(12)	999-999-9999		Y		
CUSTOMERS	CUST_ID	Customer unique ID	INT(10)	9999	2000-2999	Y	PK	
	CUST_LASTNAME	Customer last name	VARCHAR(20)	Xxxxxxxxxx		Y		
	CUST_FIRSTNAME	Customer first name	VARCHAR(20)	Xxxxxxxxxx		Y		
	CUST_MIDDLENAME	Customer middle name	VARCHAR(20)	Xxxxxxxxxx				
	CUST_PHONE	Customer phone number	VARCHAR(12)	999-999-9999				
	CUST_STATE	Customer state	VARCHAR(2)	Xx				
	CUST_EMAIL	Customer email address	VARCHAR(35)	Xxxxxxxxxx		Y		
FLIGHTS	FLIGHT_CODE	Flight unique code	INT(10)	9999	3000-3999	Y	PK	
	FLIGHT_DATE	Flight date	DATE	yyyy-mm-dd		Y		
	FLIGHT_TIME	Flight time	VARCHAR(15)	99:99 xx	01:00-12:59	Y		
	FLIGHT_DESTINATION	Flight destination	CHAR(20)	Xxxxxxxxxx		Y		
BOOKING OFFICE	BOOKING_ID	Booking office unique ID	INT(10)	9999	4000-4999	Y	PK	
	BOOKING_LASTNAME	Booking officer last name	VARCHAR(20)	Xxxxxxxxxx		Y		
	BOOKING_FIRSTNAME	Booking officer first name	VARCHAR(20)	Xxxxxxxxxx		Y		
AIRLINES	AIRLINE_NAME	Airline name	VARCHAR(20)	Xxxxxxxxxx		Y	PK	
	AIRLINE_CODE	Airline reference code	INT(10)	9999	5000-5999	Y		
	AIRLINE_LOCATION	Airline location	VARCHAR(20)	Xxxxxxxxxx				
	AIRLINE_TERMINAL	Airline terminal	VARCHAR(20)	Xxxxxxxxxx				
AIRCRAFT	AIRCRAFT_ID	Aircraft unique ID	INT(10)	9999	6000-6999	Y	PK	
	AIRCRAFT_CAPACITY	Aircraft seating capacity	INT(10)	9999	10-999	Y		
	AIRLINE_NAME	Airline name	VARCHAR(20)	Xxxxxxxxxx		Y	FK	AIRLINE
SEAT	SEAT_NUM	Seat number	VARCHAR(3)	Xxx		Y	PK	
	SEAT_CLASS	Seat class	VARCHAR(15)	Xxxxxxxxxx		Y		
	CUST_ID	Customer unique ID	INT(10)	9999	2000-2999	Y	FK	CUSTOMER
CARRY-ONS	CARRYON_CODE	Carry-on unique code	INT(10)	9999	7000-7999	Y	PK	
	CARRYON_HEIGHT	Carry-on height (in inches)	NUMBER(5,2)	999.99	0-22	Y		
	CARRYON_LENGTH	Carry-on length (in inches)	NUMBER(5,2)	999.99	0-14	Y		
	CARRYON_WIDTH	Carry-on width (in inches)	NUMBER(5,2)	999.99	0-9	Y		
	CUST_ID	Customer reference ID	INT(10)	9999		Y	FK	CUSTOMER
LUGGAGE	LUGGAGE_CODE	Luggage unique code	INT(10)	9999	8000-8999	Y	PK	
	LUGGAGE_WEIGHT	Luggage weight (in lbs)	NUMBER(5,2)	999.99	0-50			
	CUST_ID	Customer unique ID	INT(10)	9999	2000-2999	Y	FK	CUSTOMER
FLIGHT TICKETS	TICKET_NUM	Ticket unique number	INT(10)	9999	9000-9999	Y	PK	
	TICKET_DEPARTTIME	Ticket departure time	VARCHAR(15)	99:99 xx	01:00-12:59	Y		
	TICKET_ARRIVETIME	Ticket arrival time	VARCHAR(15)	99:99 xx	01:00-12:59	Y		
	TICKET_DEPARTLOCATION	Ticket departure location	VARCHAR(35)	Xxxxxxxxxx		Y		
	TICKET_ARRIVELOCATION	Ticket arrival location	VARCHAR(35)	Xxxxxxxxxx		Y		
	CUST_ID	Customer unique ID	INT(10)	99999	2000-2999	Y	FK	CUSTOMER
	SEAT_NUM	Seat number	VARCHAR(3)	Xxx		Y	FK	SEAT

Part B

1. CREATE

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```
1 CREATE TABLE ADMINISTRATORS (
2   ADMIN_ID int NOT NULL PRIMARY KEY,
3   ADMIN_LASTNAME varchar(20),
4   ADMIN_FIRSTNAME varchar(20),
5   ADMIN_MIDDLENAME varchar(20),
6   ADMIN_PHONE varchar(12)
7 );
8
9
```

Table created.

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SQL Worksheet

Clear Find Actions Save Run

```
1 CREATE TABLE CUSTOMERS(
2   CUST_ID int PRIMARY KEY,
3   CUST_LASTNAME varchar(20),
4   CUST_FIRSTNAME varchar(20),
5   CUST_MIDDLENAME varchar(20),
6   CUST_PHONE varchar(12),
7   CUST_STATE varchar(2),
8   CUST_EMAIL varchar(35)
9 );
10
```

Table created.

≡

Live SQL

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```
1 CREATE TABLE FLIGHTS(  
2   FLIGHT_CODE int NOT NULL PRIMARY KEY,  
3   FLIGHT_DATE Date,  
4   FLIGHT_TIME varchar(15),  
5   FLIGHT_DESTINATION char(20)  
6 );  
7
```

Table created.

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```
1 CREATE TABLE BOOKING_OFFICE(  
2   BOOKING_ID int NOT NULL PRIMARY KEY,  
3   BOOKING_LASTNAME varchar(20),  
4   BOOKING_FIRSTNAME varchar(20)  
5 );  
6  
7 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)  
8 VALUES ('4729', 'Ferguson', 'David');  
9  
10 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)  
11 VALUES ('4885', 'Meslier', 'Lucas');  
12  
13 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)  
14 VALUES ('4964', 'Hauer', 'Thomas');  
15  
16 SELECT * FROM BOOKING_OFFICE
```

Table created.

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```
1 CREATE TABLE AIRLINES(  
2 AIRLINE_NAME varchar(20) PRIMARY KEY,  
3 AIRLINE_CODE int,  
4 AIRLINE_LOCATION varchar(20),  
5 AIRLINE_TERMINAL varchar(20)  
6 );  
7  
8 ALTER TABLE AIRLINES  
9 DROP AIRLINE_TERMINAL;  
10  
11 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)  
12 VALUES ('Emirates', '5044', 'LAX');  
13  
14 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)  
15 VALUES ('American', '5084', 'BUR');  
16  
17 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)  
18 VALUES ('Delta', '5106', 'SEA');  
19
```

Table created.

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```
1 CREATE TABLE AIRCRAFT (  
2 AIRCRAFT_ID int PRIMARY KEY,  
3 AIRCRAFT_CAPACITY int,  
4 AIRLINE_NAME varchar(20),  
5 FOREIGN KEY (AIRLINE_NAME) REFERENCES AIRLINES(AIRLINE_NAME)  
6 );
```

Table created.

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SQL Worksheet

Clear Find Actions Save Run

```
1 CREATE TABLE SEAT(  
2 SEAT_NUM varchar(3) PRIMARY KEY,  
3 SEAT_CLASS varchar(15),  
4 CUST_ID int,  
5 FOREIGN KEY (CUST_ID) REFERENCES CUSTOMERS(CUST_ID)  
6 );  
7
```

Table created.

SQL Worksheet

Clear Find Actions Save Run

```
1 CREATE TABLE CARRYONIS(  
2 CARRYON_CODE int PRIMARY KEY,  
3 CARRYON_HEIGHT NUMBER(5,2),  
4 CARRYON_LENGTH NUMBER(5,2),  
5 CARRYON_WIDTH NUMBER(5,2),  
6 CUST_ID int,  
7 FOREIGN KEY (CUST_ID) REFERENCES CUSTOMERS(CUST_ID)  
8 );
```

Table created.

SQL Worksheet

Clear Find Actions Save Run

```
1 CREATE TABLE LUGGAGE(  
2 LUGGAGE_CODE int PRIMARY KEY,  
3 LUGGAGE_WEIGHT NUMBER(5,2),  
4 CUST_ID int,  
5 FOREIGN KEY (CUST_ID) REFERENCES CUSTOMERS(CUST_ID)  
6 );
```

Table created.

SQL Worksheet

Clear Find Actions Save Run

```
1 CREATE TABLE TICKET(  
2 TICKET_NUM int PRIMARY KEY,  
3 TICKET_DEPARTTIME varchar(15),  
4 TICKET_ARRIVETIME varchar(15),  
5 TICKET_DEPARTLOCATION varchar(35),  
6 TICKET_ARRIVELOCATION varchar(35),  
7 CUST_ID int,  
8 SEAT_NUM varchar(3),  
9 FOREIGN KEY (CUST_ID) REFERENCES CUSTOMERS(CUST_ID),  
10 FOREIGN KEY (SEAT_NUM) REFERENCES SEAT(SEAT_NUM)  
11 );
```

Table created.

2. INSERT

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```
1 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
2 VALUES ('1065', 'Fong', 'Yan', 'Xiu', '818-166-2046');
3
4 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
5 VALUES ('1044', 'Andolini', 'Henry', 'Antonio', '213-837-4591');
6
7 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
8 VALUES ('1079', 'Garcia', 'Jennifer', 'Alva', '323-455-6733');
9
10 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
11 VALUES ('1054', 'Hendricks', 'John', 'Paul', '323-690-3043');
12
13 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
14 VALUES ('1058', 'Wright', 'Deion', 'James', '213-166-2046');
15
16 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
17 VALUES ('1035', 'Thompson', 'Sean', 'Paul', '323-893-9021');
18
19 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
```

1 row(s) inserted.
1 row(s) inserted.
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1 row(s) inserted.

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```
1 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_MIDDLENAME, CUST_PHONE, CUST_STATE, CUST_EMAIL)
2 VALUES ('2872', 'Vega', 'Julius', 'Romero', '704-862-9596', 'CA', 'vega14@yahoo.com');
3
4 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_PHONE, CUST_STATE, CUST_EMAIL)
5 VALUES ('2950', 'Robbins', 'Tiffany', '507-747-6596', 'MN', 'trobbins@gmail.com');
6
7 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_MIDDLENAME, CUST_STATE, CUST_EMAIL)
8 VALUES ('2490', 'Toni', 'Bradley', 'Ross', 'CA', 'trbrad@gmail.com');
9
10 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_MIDDLENAME, CUST_PHONE, CUST_STATE, CUST_EMAIL)
11 VALUES ('2734', 'Silva', 'Terrence', 'de', '850-693-5992', 'FL', 'demansilva@yahoo.com');
12
13 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_EMAIL)
14 VALUES ('2113', 'Ross', 'Bert', 'bross17@gmail.com');
15
16 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_MIDDLENAME, CUST_PHONE, CUST_STATE, CUST_EMAIL)
17 VALUES ('2139', 'Smith', 'Minnie', 'A', '347-771-3027', 'NY', 'minniemouse@yahoo.com');
18
19 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_PHONE, CUST_EMAIL)
20 VALUES ('2514', 'Jensen', 'Paul', '717-753-8582', 'pjsalt19@gmail.com');
21
22 INSERT INTO CUSTOMERS (CUST_ID, CUST_LASTNAME, CUST_FIRSTNAME, CUST_MIDDLENAME, CUST_STATE, CUST_EMAIL)
23 VALUES ('2195', 'Rios', 'Sonja', 'Maria', 'NM', 'sonjamrios@calstatela.edu');
```

1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.

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```
1 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('25W', 'Economy', '2950');
2
3 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('62Z', 'Business', '2872');
4
5 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('22B', 'Economy', '2734');
6
7 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('25L', 'First Class', '2139');
8
9 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('8A', 'First Class', '2490');
10
11 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('35T', 'Economy', '2195');
12
13 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('43H', 'Economy', '2113');
14
15 INSERT INTO SEAT (SEAT_NUM, SEAT_CLASS, CUST_ID) VALUES ('13Z', 'Business', '2514');
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

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```
1 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
2 VALUES ('7062', '11', '1', '2', '2872');
3
4 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
5 VALUES ('7043', '6', '14', '7', '2872');
6
7 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
8 VALUES ('7379', '5', '7', '2', '2113');
9
10 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
11 VALUES ('7208', '19', '8', '3', '2950');
12
13 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
14 VALUES ('7339', '11', '5', '2', '2195');
15
16 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
17 VALUES ('7177', '6', '11', '4', '2490');
18
19 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
20 VALUES ('7217', '3', '9', '6', '2514');
21
22 INSERT INTO CARRYONS (CARRYON_CODE, CARRYON_HEIGHT, CARRYON_LENGTH, CARRYON_WIDTH, CUST_ID)
23 VALUES ('7724', '8', '10', '5', '2139');
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

SQL Worksheet

Clear

Find

Actions

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```
1 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8287', '35.2', '2950');
2
3 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8815', '29', '2872');
4
5 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8251', '9.5', '2490');
6
7 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8309', '4', '2195');
8
9 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8683', '48', '2139');
10
11 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8933', '16.7', '2113');
12
13 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8708', '13.9', '2514');
14
15 INSERT INTO LUGGAGE (LUGGAGE_CODE, LUGGAGE_WEIGHT, CUST_ID) VALUES ('8473', '6', '2195');
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

SQL Worksheet

Clear

Find

Actions

Save

Run

```
1 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
2 VALUES ('9780', '8:00 am', '10:00 am', 'Los Angeles', 'Las Vegas', '2113', '43H');
3
4 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
5 VALUES ('9342', '12:00 pm', '2:15 am', 'New York', 'Japan', '2950', '25W');
6
7 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
8 VALUES ('9257', '2:00 pm', '6:30 pm', 'Austin', 'Portland', '2490', '8A');
9
10 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
11 VALUES ('9945', '8:00 am', '1:20 pm', 'Seattle', 'Orlando', '2734', '22B');
12
13 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
14 VALUES ('9983', '7:00 am', '8:30 am', 'Los Angeles', 'San Francisco', '2872', '62Z');
15
16 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
17 VALUES ('9582', '12:00 am', '4:45 am', 'Oklahoma City', 'Toronto', '2139', '25L');
18
19 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
20 VALUES ('9207', '5:00 pm', '2:20 am', 'Chicago', 'Honolulu', '2514', '13Z');
21
22 INSERT INTO TICKET (TICKET_NUM, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVELOCATION, CUST_ID, SEAT_NUM)
23 VALUES ('9100', '9:00 am', '2:30 pm', 'Maui', 'Los Angeles', '2195', '35T');
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

3. SELECT

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```
7 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
8 VALUES ('1079', 'Garcia', 'Jennifer', 'Alva', '323-455-6733');
9
10 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
11 VALUES ('1054', 'Hendricks', 'John', 'Paul', '323-698-3043');
12
13 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
14 VALUES ('1058', 'Wright', 'Deion', 'James', '213-166-2046');
15
16 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
17 VALUES ('1035', 'Thompson', 'Sean', 'Paul', '323-893-9021');
18
19 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
20 VALUES ('1068', 'Hunt', 'Aaron', 'Gabriel', '213-679-9248');
21
22 INSERT INTO ADMINISTRATORS (ADMIN_ID, ADMIN_LASTNAME, ADMIN_FIRSTNAME, ADMIN_MIDDLENAME, ADMIN_PHONE)
23 VALUES ('1023', 'Johansson', 'Sven', 'Xavier', '818-626-1738');
24
25 Select * FROM ADMINISTRATORS
```

ADMIN_ID	ADMIN_LASTNAME	ADMIN_FIRSTNAME	ADMIN_MIDDLENAME	ADMIN_PHONE
1065	Fong	Yan	Xiu	818-166-2046
1044	Andolini	Henry	Antonio	213-837-4591
1079	Garcia	Jennifer	Alva	323-455-6733
1054	Hendricks	John	Paul	323-698-3043
1058	Wright	Deion	James	213-166-2046
1035	Thompson	Sean	Paul	323-893-9021
1068	Hunt	Aaron	Gabriel	213-679-9248
1023	Johansson	Sven	Xavier	818-626-1738

Download CSV
8 rows selected.

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Clear Find Actions Save Run

```
1 SELECT * FROM CUSTOMERS;
```

CUST_ID	CUST_LASTNAME	CUST_FIRSTNAME	CUST_MIDDLENAME	CUST_PHONE	CUST_STATE	CUST_EMAIL
2872	Vega	Julius	Romero	704-862-9596	CA	vega14@yahoo.com
2950	Robbins	Tiffany	-	507-747-6556	MN	trobbins@gmail.com
2490	Toni	Bradley	Ross	-	CA	trbrad@gmail.com
2734	Silva	Terrence	de	850-693-5992	FL	demansilva@yahoo.com
2113	Ross	Bert	-	-	-	bross17@gmail.com
2139	Smith	Minnie	A	347-771-3027	NY	mInniemouse@yahoo.com
2514	Jensen	Paul	-	717-753-8582	-	pjsalt19@gmail.com
2195	Rios	Sonja	Maria	-	NM	sonjamrios@calstatela.edu

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```
7 INSERT INTO FLIGHTS (FLIGHT_CODE, FLIGHT_DATE, FLIGHT_TIME, FLIGHT_DESTINATION)
8 VALUES ('3345', DATE '2023-01-07', '5:00 AM', 'Milan');
9
10 INSERT INTO FLIGHTS (FLIGHT_CODE, FLIGHT_DATE, FLIGHT_TIME, FLIGHT_DESTINATION)
11 VALUES ('3416', DATE '2023-01-15', '4:00 AM', 'Mumbai');
12
13 INSERT INTO FLIGHTS (FLIGHT_CODE, FLIGHT_DATE, FLIGHT_TIME, FLIGHT_DESTINATION)
14 VALUES ('3567', DATE '2023-01-20', '9:00 PM', 'Miami');
15
16 INSERT INTO FLIGHTS (FLIGHT_CODE, FLIGHT_DATE, FLIGHT_TIME, FLIGHT_DESTINATION)
17 VALUES ('3659', DATE '2023-01-22', '10:00 AM', 'Toronto');
18
19 INSERT INTO FLIGHTS (FLIGHT_CODE, FLIGHT_DATE, FLIGHT_TIME, FLIGHT_DESTINATION)
20 VALUES ('3759', DATE '2023-01-27', '7:00 AM', 'London');
21
22 INSERT INTO FLIGHTS (FLIGHT_CODE, FLIGHT_DATE, FLIGHT_TIME, FLIGHT_DESTINATION)
23 VALUES ('3845', DATE '2023-01-30', '2:00 PM', 'Tokyo');
24
25 SELECT * FROM FLIGHTS
```

FLIGHT_CODE	FLIGHT_DATE	FLIGHT_TIME	FLIGHT_DESTINATION
3030	04-JAN-23	12:00 PM	Amsterdam
3303	05-JAN-23	1:00 PM	Shanghai
3345	07-JAN-23	5:00 AM	Milan
3416	15-JAN-23	4:00 AM	Mumbai
3567	20-JAN-23	9:00 PM	Miami
3659	22-JAN-23	10:00 AM	Toronto
3759	27-JAN-23	7:00 AM	London
3845	30-JAN-23	2:00 PM	Tokyo

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```
8 VALUES ('4564', 'Gomez', 'Joseph');
9
10 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)
11 VALUES ('4629', 'Ferguson', 'David');
12
13 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)
14 VALUES ('4685', 'Meslier', 'Lucas');
15
16 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)
17 VALUES ('4764', 'Hauer', 'Thomas');
18
19 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)
20 VALUES ('4885', 'Georgiou', 'Adonis');
21
22 INSERT INTO BOOKING_OFFICE (BOOKING_ID, BOOKING_LASTNAME, BOOKING_FIRSTNAME)
23 VALUES ('4964', 'Sharma', 'Daksha');
24
25
26 SELECT * FROM BOOKING_OFFICE
```

BOOKING_ID	BOOKING_LASTNAME	BOOKING_FIRSTNAME
4479	Felix	Jacqueline
4485	Nasheed	Amir
4564	Gomez	Joseph
4629	Ferguson	David
4685	Meslier	Lucas
4764	Hauer	Thomas
4885	Georgiou	Adonis
4964	Sharma	Daksha

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```
20 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)
21 VALUES ('Spirit', '5168', 'LAS');
22
23 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)
24 VALUES ('Southwest', '5243', 'PHX');
25
26 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)
27 VALUES ('JetBlue', '5277', 'IAH');
28
29 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)
30 VALUES ('Air Canada', '5339', 'YYZ');
31
32 INSERT INTO AIRLINES (AIRLINE_NAME, AIRLINE_CODE, AIRLINE_LOCATION)
33 VALUES ('Gulf Air', '5397', 'PDX');
34
35 ALTER TABLE AIRLINES
36 DROP COLUMN AIRLINE_TERMINAL;
37
38 SELECT * FROM AIRLINES
```

AIRLINE_NAME	AIRLINE_CODE	AIRLINE_LOCATION
Emirates	5044	LAX
American	5084	BUR
Delta	5106	SEA
Spirit	5168	LAS
Southwest	5243	PHX
JetBlue	5277	IAH
Air Canada	5339	YYZ
Gulf Air	5397	PDX

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```
13
14 INSERT INTO AIRCRAFT (AIRCRAFT_ID, AIRCRAFT_CAPACITY, AIRLINE_NAME)
15 VALUES ('6334', '144', 'Delta');
16
17 INSERT INTO AIRCRAFT (AIRCRAFT_ID, AIRCRAFT_CAPACITY, AIRLINE_NAME)
18 VALUES ('6355', '150', 'Spirit');
19
20 INSERT INTO AIRCRAFT (AIRCRAFT_ID, AIRCRAFT_CAPACITY, AIRLINE_NAME)
21 VALUES ('6467', '150', 'Southwest');
22
23 INSERT INTO AIRCRAFT (AIRCRAFT_ID, AIRCRAFT_CAPACITY, AIRLINE_NAME)
24 VALUES ('6489', '140', 'JetBlue');
25
26 INSERT INTO AIRCRAFT (AIRCRAFT_ID, AIRCRAFT_CAPACITY, AIRLINE_NAME)
27 VALUES ('6675', '150', 'Air Canada');
28
29 INSERT INTO AIRCRAFT (AIRCRAFT_ID, AIRCRAFT_CAPACITY, AIRLINE_NAME)
30 VALUES ('6690', '150', 'Gulf Air');
31
32 SELECT * FROM AIRCRAFT
```

AIRCRAFT_ID	AIRCRAFT_CAPACITY	AIRLINE_NAME
6231	150	Emirates
6312	130	American
6334	144	Delta
6355	150	Spirit
6467	150	Southwest
6489	140	JetBlue
6675	150	Air Canada
6690	150	Gulf Air

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1SELECT * FROM SEAT;

SEAT_NUM	SEAT_CLASS	CUST_ID
25W	Economy	2950
62Z	Business	2872
22B	Economy	2734
25L	First Class	2139
8A	First Class	2490
35T	Economy	2195
43H	Economy	2113
13Z	Business	2514

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SQL WorksheetClearFindActionsSaveRun

1SELECT * FROM CARRYONS;
2

CARRYON_CODE	CARRYON_HEIGHT	CARRYON_LENGTH	CARRYON_WIDTH	CUST_ID
7062	11	1	2	2872
7043	6	14	7	2872
7379	5	7	2	2113
7208	19	8	3	2950
7339	11	5	2	2195
7177	6	11	4	2490
7217	3	9	6	2514
7724	8	10	5	2139

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```
1 SELECT * FROM LUGGAGE;
```

LUGGAGE_CODE	LUGGAGE_WEIGHT	CUST_ID
8207	35.2	2950
8815	29	2872
8251	9.5	2490
8309	4	2195
8683	48	2139
8933	16.7	2113
8708	13.9	2514
8473	6	2195

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8 rows selected.

SQL Worksheet

Clear

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```
1 SELECT * FROM TICKET;
```

TICKET_NUM	TICKET_DEPARTTIME	TICKET_ARRIVETIME	TICKET_DEPARTLOCATION	TICKET_ARRIVELOCATION	CUST_ID	SEAT_NUM
9780	8:00 am	10:00 am	Los Angeles	Las Vegas	2113	43H
9342	12:00 pm	2:15 am	New York	Japan	2950	25W
9257	2:00 pm	6:30 pm	Austin	Portland	2490	8A
9945	8:00 am	1:20 pm	Seattle	Orlando	2734	22B
9983	7:00 am	8:30 am	Los Angeles	San Francisco	2872	62Z
9582	12:00 am	4:45 am	Oklahoma City	Toronto	2139	25L
9207	5:00 pm	2:20 am	Chicago	Honolulu	2514	13Z
9100	9:00 am	2:30 pm	Mauai	Los Angeles	2195	35T

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4. UPDATE

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SQL Worksheet

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```
1 UPDATE CUSTOMERS
2 SET CUST_MIDDLENAME = 'Adelaine'
3 WHERE CUST_ID = 2139;
```

1 row(s) updated.

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SQL Worksheet

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```
1 SELECT * FROM CUSTOMERS;
```

CUST_ID	CUST_LASTNAME	CUST_FIRSTNAME	CUST_MIDDLENAME	CUST_PHONE	CUST_STATE	CUST_EMAIL
2872	Vega	Julius	Romero	704-862-9596	CA	vega14@yahoo.com
2950	Robbins	Tiffany	-	507-747-6556	MN	trobbins@gmail.com
2490	Toni	Bradley	Ross	-	CA	trbrad@gmail.com
2734	Silva	Terrence	de	850-693-5992	FL	demansilva@yahoo.com
2113	Ross	Bert	-	-	-	bross17@gmail.com
2139	Smith	Minnie	Adelaine	347-771-3027	NY	minniemouse@yahoo.com
2514	Jensen	Paul	-	717-753-8582	-	pjsalt1@gmail.com
2195	Rios	Sonja	Maria	-	NM	sonjamrios@calstatela.edu

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5. ALTER

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```
1 ALTER TABLE AIRCRAFT
2 ADD AIRCRAFT_TERMINAL VARCHAR(20);
```

Table altered.

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```
1 ALTER TABLE AIRCRAFT
2 ADD AIRCRAFT_TERMINAL VARCHAR(20);
3
4 Select * from AIRCRAFT
5
6
7
```

AIRCRAFT_ID	AIRCRAFT_CAPACITY	AIRLINE_NAME	AIRCRAFT_TERMINAL
6231	150	Emirates	-
6312	130	American	-
6334	144	Delta	-
6355	150	Spirit	-
6467	150	Southwest	-
6489	140	JetBlue	-
6675	150	Air Canada	-
6690	150	Gulf Air	-

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6. JOIN

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1SELECT TICKET.CUST_ID, TICKET_NUM, CUST_FIRSTNAME, CUST_LASTNAME, TICKET_DEPARTTIME, TICKET_ARRIVETIME, TICKET_DEPARTLOCATION, TICKET_ARRIVETIME, SEAT_NUM

2FROM TICKET

3INNER JOIN CUSTOMERS

4ON TICKET.CUST_ID = CUSTOMERS.CUST_ID;

CUST_ID	TICKET_NUM	CUST_FIRSTNAME	CUST_LASTNAME	TICKET_DEPARTTIME	TICKET_ARRIVETIME	TICKET_DEPARTLOCATION	TICKET_ARRIVETIME	SEAT_NUM
2872	9983	Julius	Vega	7:00 am	8:30 am	Los Angeles	8:30 am	62Z
2950	9342	Tiffany	Robbins	12:00 pm	2:15 am	New York	2:15 am	25W
2490	9257	Bradley	Toni	2:00 pm	6:30 pm	Austin	6:30 pm	8A
2734	9945	Terrence	Silva	8:00 am	1:20 pm	Seattle	1:20 pm	22B
2113	9780	Bert	Ross	8:00 am	10:00 am	Los Angeles	10:00 am	43H
2139	9582	Minnie	Smith	12:00 am	4:45 am	Oklahoma City	4:45 am	25L
2514	9207	Paul	Jensen	5:00 pm	2:20 am	Chicago	2:20 am	13Z
2195	9100	Sonja	Rios	9:00 am	2:30 pm	Mauai	2:30 pm	35T

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