## **Practical - 8**

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1. Create using a single statement a new table called Craft which is an exact copy of (i.e. contains the same rows of data) as the Aircraft table.

2. Add the two new aircraft types given in query 4 (Practical Lab 7) to the Craft table. Use appropriate SQL to confirm that the two new aircraft have been inserted correctly.

```
mysql> INSERT INTO Craft Values('S60', 'Shorts-360', 36);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Craft Values('F24', 'Fokker-Friendship', 48);
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Craft;
+-----+
| AircraftType | ADescription | NoOfSeats |
+-----+
| DC9 | Advanced Turbo Prop | 43 |
| 737 | Boeing 737-300 Jet | 300 |
| BF6 | Airbus A330-200 | 105 |
| HS8 | Boeing 747SP | 250 |
| WM2 | Douglas DC-9-50 | 175 |
| S60 | Shorts-360 | 36 |
```

3. Reduce by 4 the seating capacity of all aircraft recorded in the Craft table. Use appropriate SQL to confirm that you have updated the table correctly.

4. KEEP the Craft table you will need it later! However, make a note of how you could have removed this table at this point without using the Drop statement.

We could have used a Rollback!

5. Drop the APassenger and People tables created in this exercise.

```
mysql> DROP table APassenger;
Query OK, 0 rows affected (0.03 sec)

mysql> DROP table People;
Query OK, 0 rows affected (0.13 sec)
```

6. As noted with query 9 (Practical lab 6), there are no direct flights from Delhi to Goa. To simplify the query required to list the departure times of interconnecting flights create a view called Goa-Link.

7. List the FlightNo's, Airport's, Departure and Arrival times for flights from 0900 that link Delhi with Goa.

8. Let us suppose that we want to allow all passengers to view their itineraries from a visual display at the airport by logging on to the Airline's DBMS under their Passenger ID as held in the Passenger table (the Pid column).

```
mysql> CREATE VIEW PassengerItinerary
   -> AS SELECT I.TicketNo, I.FlightNo, I.FlightDate
   -> FROM Passenger P, Itinerary I
   -> WHERE P.Pid = user
   -> AND P.TicketNo = I.TicketNo;
```

9. Passengers travelling from Indore to Goa must pick up a link flight from Kolkata. Create a View of the interconnecting flights between Indore and Goa.

10. List, based on an appropriate join with the view created in query 9, the possible arrival times at Goa based upon a departure from Indore on flight BD54.

```
mysql> SELECT L.ArrTime
    -> FROM Flight F, Link L
    -> WHERE F.FlightNo = 'BD54' AND F.FromAirport = 'Indore'
    -> AND L.DepTime > F.ArrTime;
+-----+
| ArrTime |
+-----+
| 22:40:00 |
+-----+
1 row in set (0.15 sec)
```

11. Remove the View created in query 9 from the database.

```
mysql> DROP VIEW Link;
Query OK, 0 rows affected (0.00 sec)
```