06 HomeWork

This homework includes the class work for this module Use Lecture06 for this assignment.

Using the database db/Lecture06 Create the following Queries. Use the ‘new’ syntax for Joins.

1 – You want to calculate how much money you are making. Assume you make a profit of $0.15 per pound of package shipped. Compute the profit made for each shipper in your system. Order the answer by last name, first name.

Columns: **FirstName, LastName, Profit**

2 – You want to contact all shippers with no shipments currently in the system. Generate a table that has all shippers with no shipments currently in the system. Order by last name, firstName ‘A’ at the top

Columns **LastName, FirstName**

3 – You want a list of the status of all shippers. For each shipper print the FirstName, LastName, and Status Description. If no status print ‘None’. Sort based on the last name, firstname ( A at the top of the list)

Columns: **FirstName, LastName, Status**

4 – You want to find out how many shippers are using each status. Create a query that returns, for each status code description, how many shippers have that status. Add a virtual code of ‘NoStatus’ for shippers with no status. Order by Description

Columns: **Description, Num**

5 – List the location of every aircraft . The Location value should be one of:

‘At <ICAO>’ The aircraft is on the ground, not scheduled to go anywhere

‘Sch To <ICAO>’ The aircraft is on the ground, but has a destination picked.

‘En Rte <ICAO>’ The aircraft is flying to the destination

Columns: **TailNumber Location**

6 – Find all late packages in the system. Each status of shipper has a different SLA ( service level agreement) for delivery. For Platinum the promise is 2 days, Gold 3 days, Silver 4 days. Assume today’s date is 2018-03-09 For each late package, provide the shippers name, the description of his status, and the bar code. Order the output with the highest priority ( Platinum) on the top – followed by last name, firstName

Columns**: FirstName, LastName, Description, TicketNumber, BarCode**.

7 – Find all packages that are on the ‘Wrong’ Airplane. IE a plane that is in the air headed to an airport that is not the final destination of the ticket OR which is in a plane that is on the ground but scheduled to depart to the wrong airport. The ‘FinalDestination’ is where the package wants to go. The ‘InterimDestination’ is the next destination for the package.

Columns: **BarCode, FinalDestination, InterimDestination**

8 – Generate a report that shows the number Tickets that are currently in transit to the wrong location ( Per the logic in #7 but Tickets not packages) Do not show shippers with no active tickets. Order the report by LastName, FirstName

Columns: **FirstName, LastName, NumLost**

9 – Modify report #8 to show the number of lost packages per Shipper. If the shipper has no lost packages return 0 for that shipper.

Columns**: FirstName, LastName, NumLost**

10 – Prepare a report that shows information about all of the packages in the system. We are only interested in

* Red packages that are GT 30 lb.
* Green packages that are GT 25 lb
* Unknown color packages that are GT 35 lb

For packages that have a unknown color – put ‘Unknown’ as the color in the return table. Order by color, weight with the heaver packages at the top of the list.

Columns: BarCode, Weight, Color

11- List every package in the system with it’s location. The location string should be one of:

* ‘At Terminal <ICAO>’
* ‘En Route <ICAL>’
* ‘Waiting Takeoff<ICAO>’

Columns: **FirstName, LastName, BarCode, Locaiton**

12 – Assume your profit structure is as follows:

* 0.15 per pound for packages shipped
* 1.00 per shipment ( Ticket)
* -0.50 for shippers with no shipments.

Write a query that returns the name of each shipper, with the anticipated profit. Order by last name, first name.

Columns LastName, FirstName, Profit

13 – Using the query above as a basis – write a query that returns the total anticipated profit. ( IE add up all the values)

Column: **AnticipatedProfit**