

# Independent Project 3-5 AirTable Alternative

The State of New York Department of Motor Vehicles wants to create three Airtable views. The first view provides summary data on the number of tickets by city and violation. The second view summarizes the total tickets by violation. The third view provides summary data for the total fines assessed against each driver who has had a ticket.

## Skills Covered in This Project

- Create a summary (grid) view.
- Edit a view.
- Add fields to a view.
- Add a grouping to a view.
- Create a view for linked tables.
- Sort view results.

## Instructions Steps

1. Accept my invitation to add the shared template database **NewYorkDMV-03** to your catalog of databases. (You should have receive an invitation from me with a link to the shared Airtable database.)
2. Right-click on the shared database and select 'Duplicate base' to create your own editable copy. (Leave all the settings as they are in the subsequent dialog.)
3. Right-click on the newly copied database and edit the name on the subsequent dialog by replacing the word 'copy' (at the end) with your first and last name. Press 'Return' to save this new name.
4. Click on your new database to open it - you should see a Drivers table and a Tickets table.
5. Select the **Tickets** table.
6. Create a new Grid View and name this view as **TicketCountByCityAndFactor**. (AirTable Help: [Create a new view](#) )
7. Click on the ' Hide fields', and hide all of the fields but leave TicketNumber, City, and PrimaryFactor to be displayed in this View.
8. Add a Grouping for this view and group by (1) City and (2) Primary Factor. Note that the result includes count information in the header of each group segment. (AirTable Help: [Guide to grouped records](#) ). This view is displaying the number of tickets based on the City and the Factor.
9. Now we will create a view that focuses on the Factor specifically. Duplicate your **TicketCountByCityAndFactor** view and name it as **TicketCountByFactor**. (To duplicate a view, click the '...' at the far right of the View menu bar and select 'Duplicate View' from the dropdown

menu.)

10. Edit the existing two *Group by*'s and delete the *Group by* based on 'City'. Leave the *Group By* for Primary Factor.
11. Close the Grouping dialog and remove the City field from the view. To delete the City field (column) click the dropdown arrow (the little dropdown arrow at the right edge of the City column header) and select 'Delete field' on the subsequent selection.
12. Select the Drivers table (tab).
13. Create a new view on this table and name it as **TicketCountByFactor**.
14. In order to get a count of tickets for each driver we need to establish a link between the Drivers and Tickets table. Click the dropdown arrow for the Tickets column (the little dropdown arrow at the right edge of the Tickets column header). Select 'Customize field type' and select 'Link to another record' - choose 'Tickets' on the subsequent selection. You will see that the values found in this column are now linked to their corresponding record in the Tickets table.
15. Click on the 'Hide fields', and hide all of the fields but leave the LicenseNumber, FirstName, LastName, Fine, and TicketNumber fields.
16. Add a new field (column) to this view by clicking the '+' out to right of the Tickets field, name this '# of Tickets' and set its type to 'Count'.
17. Create a Grouping for this View based on the three fields: LicenseNumber, FirstName, and LastName fields. This third view displays a list of drivers and a count (sum) of their total tickets.

## Submit Your Work

Once your database is ready for grading, click the *Share* button in the upper right and send an invitation to me ([bruce.caraway@lonestar.edu](mailto:bruce.caraway@lonestar.edu)) so that I can review your work.