**Purpose:** PEDStrata function sets the table to do the heavy lifting for the PEDStrata package. It is actually relatively straightforward once the data are pre-processed. Basically this returns the commercial sized surveyl catch (yhi), strata ID's, number of towable units(Nh), proportion of towable units in each strata (Wh) and the number of tows in each strata (nh).

**Version Control:** This is it.

**Librarys**: PEDstrata

**Function Arguments Summary**

1. **data.obj**: The raw data containing strata ID's and possibly catch information for each tow. One column in this data should have same name as 'strata.name' argument
2. **strata.group**: The Strata ID + towable area of the strata.
3. **strata.name**: The column name in 'data.obj' from which to extract the strata
4. **catch**: The total commercial catch for each tow in the data.obj.
5. **Subset**: Subset the data. If so define how (.e.g. something like data.obj$year == 2012)

**Section 1**

This function takes survey catch, survey towable area, and number of survey tows and wraps it into a nice list containing the commercial sized survey catch, **yhi**, strata ID’s, **Strata**, Number of towable units in a strata, **Nh**, the proportion of towable area in each strata, **Wh**, and the number of tows in each strata, **nh**. This is returned to other functions (e.g. survey.dat.r) from which the survey mean and variances are most likely calculated (c.f. Smith 1993).

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**Reference**

Smith SJ, Gavaris S, 1993 Improving the Precision of Abundance Estimates of Eastern Scotian Shelf Atlantic Cod from Bottom Trawl Surveys. North Atlantic Journal of Fisheries Management 13:35-47