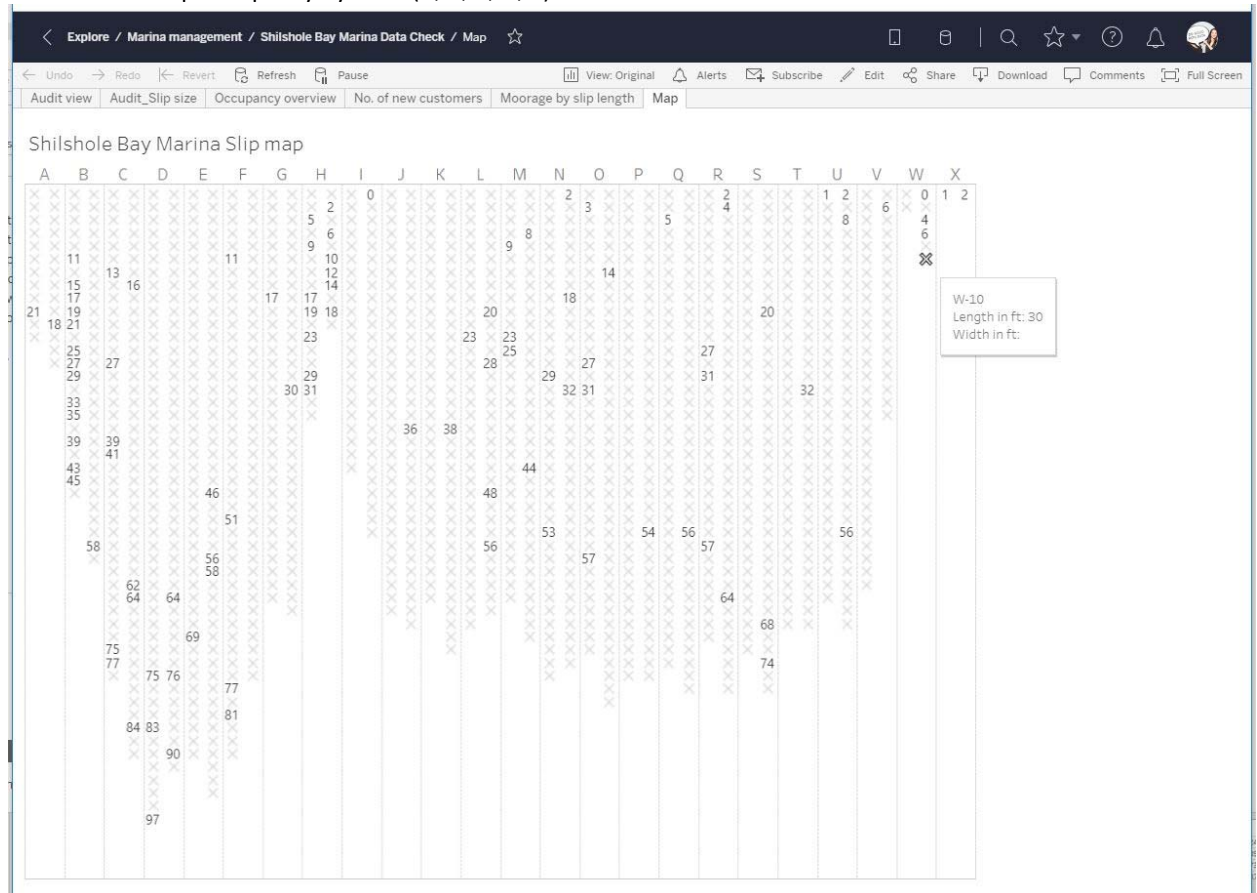# Marina management system

Problem

Basic operational information at Shilshole Bay Marina is time-consuming to access or not easily available. For example, generating slip occupancy requires downloading and pasting together multiple reports, taking more than 20 hours each month.

Solution

I built custom SQL reporting views and designed interactive Tableau dashboards for the customer which optimize operational efficiencies by reducing manual reporting efforts by 75% and provide insights that can drive marketing decisions. The customer can:
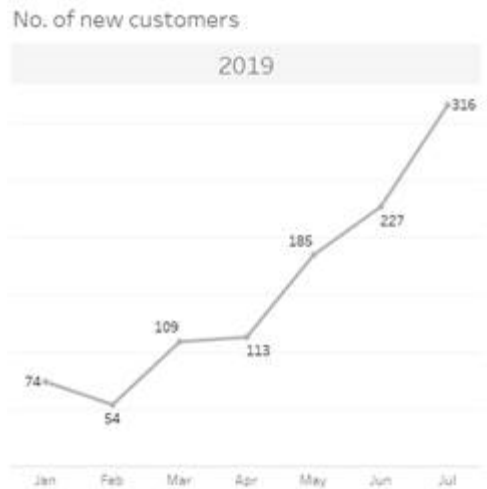
- See real-time slip occupancy by dock (A, B, C, D,…)

- Quickly and easily answer questions like how many 40' vessels are currently moored at the marina.

Length in ft	
18	1
22	11
24	1
26	26
30	377
34	89
36	230
38	153
40	254
42	221
46	190

- See customer acquisition monthly.

No. of new customers

- Audit moorage assignments and identify entry errors, e.g. identify assignments with two slip assignments, to ultimately improve data quality.

← Undo → Redo ← Revert ⟲ Refresh ⏸ Pause

Audit view | Audit_Slip size | Occupancy overview | No. of new customers | Moorage by slip length | Map

Audit view

Click on dock or slip name in left table to view assignment details.

List of slips with multiple customer Ids per assignment

Dock	Slip	
A	A-06	2
B	B-06	2
	B-13	2
	B-37	2
	B-38	2
C	C-11	2
	C-20	2
	C-22	2
	C-29	2
	C-49	2
	C-53	2
	C-60	2
D	D-55	2
E	E-07	2
	E-10	2
	E-29	2
	E-31	2
	E-67	2

Slip	Assignment_id	Customer_id	Day of Arrival_date	Day of Departure_date	Assignment_type	Length in ft	Width in ft
B-06	116822	31914	08/27/16	Null	MONTHLY	30	11.0
	119954	31914	04/01/17	Null	MONTHLY	30	11.0
	120095	31914	03/01/17	Null	MONTHLY	30	11.0
	192069	69693	03/01/19	2/28/20	SUBLEASE	30	11.0
B-13	191275	27323	05/26/19	8/31/19	MONTHLY	22	10.0
	192045	30280	07/01/19	Null	MONTHLY	22	10.0
B-37	136880	35345	11/01/18	Null	MONTHLY	50	25.0
	147773	35345	11/01/18	Null	MONTHLY	50	25.0
	169741	49528	04/01/19	3/31/20	SUBLEASE	50	25.0
B-38	100057	30470	09/01/14	Null	MONTHLY	46	15.5
	159042	39364	02/23/19	2/23/20	SUBLEASE	46	15.5