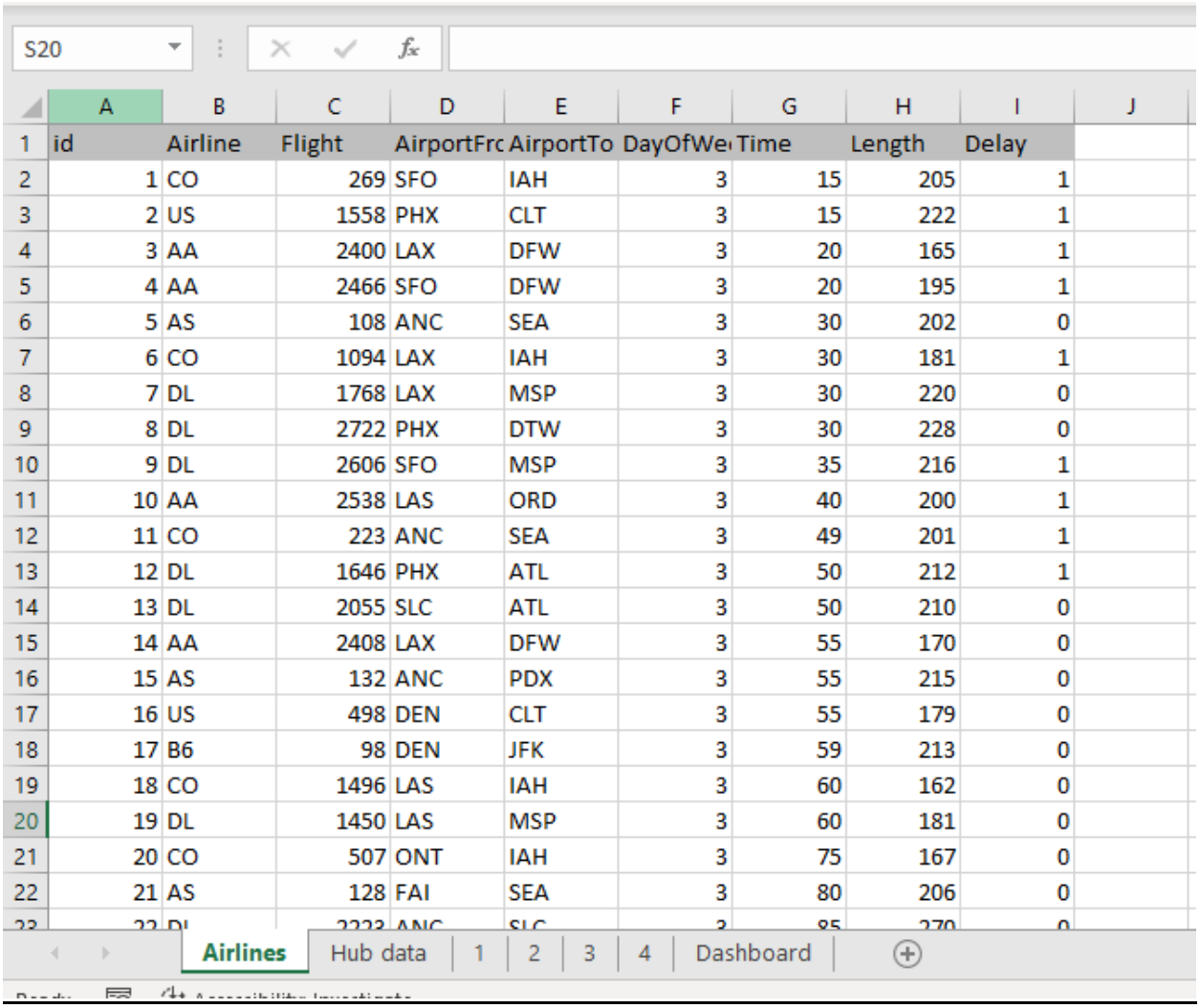
United States Airlines Analysis Excel Project

Create an Excel dashboard showcasing the following (use form controls to make a dynamic chart):



S20

	A	B	C	D	E	F	G	H	I	J
1	id	Airline	Flight	AirportFrc	AirportTo	DayOfWe	Time	Length	Delay	
2	1	CO	269	SFO	IAH	3	15	205	1	
3	2	US	1558	PHX	CLT	3	15	222	1	
4	3	AA	2400	LAX	DFW	3	20	165	1	
5	4	AA	2466	SFO	DFW	3	20	195	1	
6	5	AS	108	ANC	SEA	3	30	202	0	
7	6	CO	1094	LAX	IAH	3	30	181	1	
8	7	DL	1768	LAX	MSP	3	30	220	0	
9	8	DL	2722	PHX	DTW	3	30	228	0	
10	9	DL	2606	SFO	MSP	3	35	216	1	
11	10	AA	2538	LAS	ORD	3	40	200	1	
12	11	CO	223	ANC	SEA	3	49	201	1	
13	12	DL	1646	PHX	ATL	3	50	212	1	
14	13	DL	2055	SLC	ATL	3	50	210	0	
15	14	AA	2408	LAX	DFW	3	55	170	0	
16	15	AS	132	ANC	PDX	3	55	215	0	
17	16	US	498	DEN	CLT	3	55	179	0	
18	17	B6	98	DEN	JFK	3	59	213	0	
19	18	CO	1496	LAS	IAH	3	60	162	0	
20	19	DL	1450	LAS	MSP	3	60	181	0	
21	20	CO	507	ONT	IAH	3	75	167	0	
22	21	AS	128	FAI	SEA	3	80	206	0	

Airlines | Hub data | 1 | 2 | 3 | 4 | Dashboard

P16

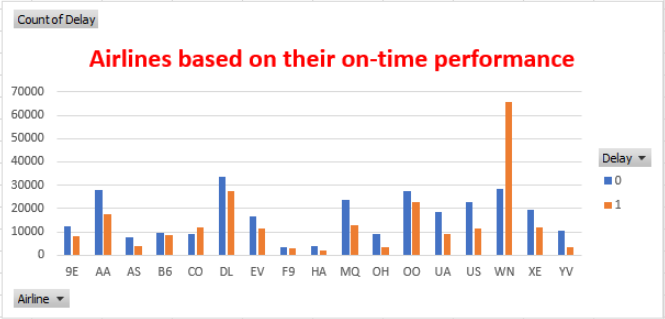
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	airport	iatacode	city	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	
2	Hartsfield–Jackson Atlanta International Airport	ATL	Atlanta	36676010	20559866	53505795	51865797	50251964	50501858	49340732	46604273	45308407	45798928	
3	Dallas/Fort Worth International Airport	DFW	Dallas & F	30005266	18593421	35778573	32821799	31816933	31283579	31589839	30804567	29038128	28022904	
4	Denver International Airport	DEN	Denver	28645527	16243216	33592945	31362941	29809097	28267394	26280043	26000591	25496885	25799841	
5	O'Hare International Airport	ORD	Chicago	26350976	14606034	40871223	39873927	38593028	37589899	36305668	33843426	32317835	32171795	
6	Los Angeles International Airport	LAX	Los Angel	23663410	14055777	42939104	42624050	41232432	39636042	36351272	34314197	32425892	31326268	
7	Charlotte Douglas International Airport	CLT	Charlotte	20900875	12952869	24199688	22281949	22011251	21511880	21913166	21537725	21346601	20033816	
8	Orlando International Airport	MCO	Orlando	19618838	10467728	24562271	23202480	21565448	20283541	18759938	17278608	16884524	17159427	
9	Harry Reid International Airport	LAS	Las Vegas	19160342	10584059	24728361	23795012	23364393	22833267	21857693	20620248	19946179	19959651	
10	Phoenix Sky Harbor International Airport	PHX	Phoenix	18940287	10531436	22433552	21622580	21185458	20896265	21351504	20344867	19525109	19560870	
11	Miami International Airport	MIA	Miami	17500096	8786007	21421031	21021640	20709225	20875813	20986349	19471466	19420089	18987488	
12	Seattle–Tacoma International Airport	SEA	Seattle	17430195	9462411	25001762	24024908	22639124	21887110	20148980	17888080	16690295	16121123	
13	George Bush Intercontinental Airport	IAH	Houston	16242821	8682558	21905309	21157398	19603731	20062072	20595881	19772087	18952840	19039000	
14	John F. Kennedy International Airport	JFK	New York	15273342	8269819	31036655	30620769	29533154	29239151	27782369	26244928	25036358	24520981	
15	Newark Liberty International Airport	EWR	Newark &	14514049	7985474	23160763	22797602	21571198	19923009	18684818	17773405	17546506	17055993	
16	Fort Lauderdale–Hollywood International Airport	FLL	Fort Laude	13598994	8015744	17950989	17612331	15817043	14263270	13061632	12031860	11538140	11445103	
17	Minneapolis–Saint Paul International Airport	MSP	Minneapc	12211409	7069720	19192917	18361942	18409704	18123844	17634273	16972678	16280835	15943878	
18	San Francisco International Airport	SFO	San Franci	11725347	7745057	27779230	27790717	26900048	25707101	24190560	22770783	21704626	21284236	
19	Detroit Metropolitan Airport	DTW	Detroit	11517696	6822324	18143040	17436837	17036092	16847135	16255520	15775941	15683523	15599879	
20	Logan International Airport	BOS	Boston	10909817	6035452	20699377	20006521	18759742	17759044	16290362	15507561	14810153	14293695	
21	Salt Lake City International Airport	SLC	Salt Lake (	10795906	5753239	12840841	12226730	11615954	11143738	10634538	10139065	9668048	9579840	
22	Philadelphia International Airport	PHL	Philadelpl	9820222	5753239	16006389	15292670	14271243	14564419	15101349	14792339	14727945	14589337	
23	Baltimore/Washington International Airport	BWI	Baltimore	9253561	5451355	13284687	13271816	12976554	13340972	11738845	11022200	11132731	11186444	

Airlines | Hub data | 1 | 2 | 3 | 4 | Dashboard

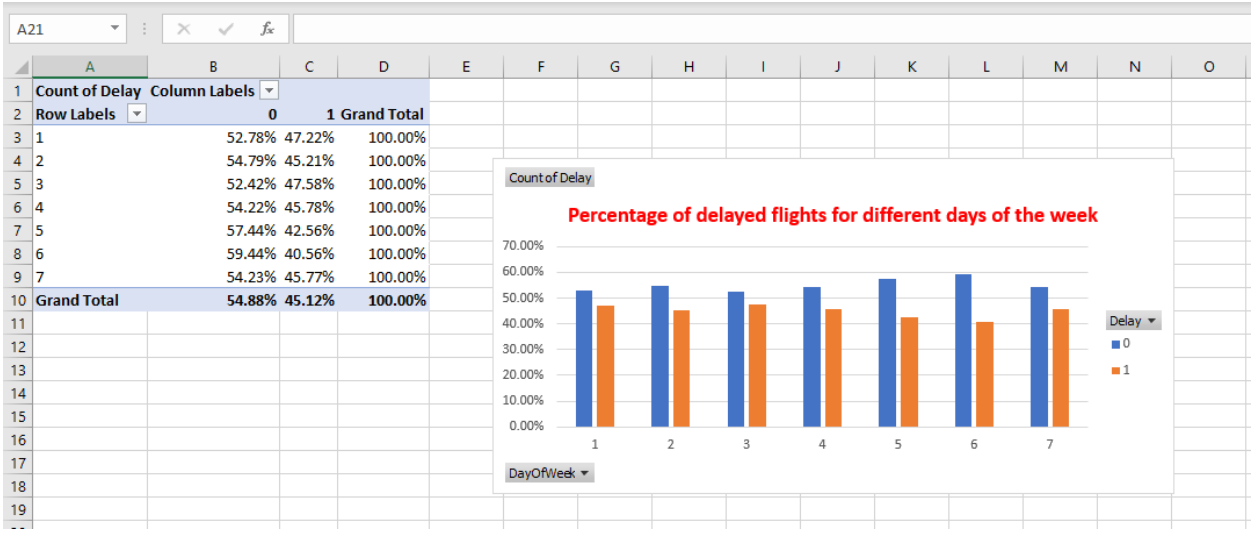
1. Compare different airlines based on their on-time performance.

S22

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Count of Delay	Column Labels														
2	Row Labels	0	1	Grand Total												
3	9E	12460	8226	20686												
4	AA	27920	17736	45656												
5	AS	7579	3892	11471												
6	B6	9653	8459	18112												
7	CO	9161	11957	21118												
8	DL	33488	27452	60940												
9	EV	16728	11255	27983												
10	F9	3557	2899	6456												
11	HA	3792	1786	5578												
12	MQ	23863	12742	36605												
13	OH	9128	3502	12630												
14	OO	27494	22760	50254												
15	UA	18673	8946	27619												
16	US	22909	11591	34500												
17	WN	28440	65657	94097												
18	XE	19331	11795	31126												
19	YV	10391	3334	13725												
20	Grand Total	284567	233989	518556												
21																
22																

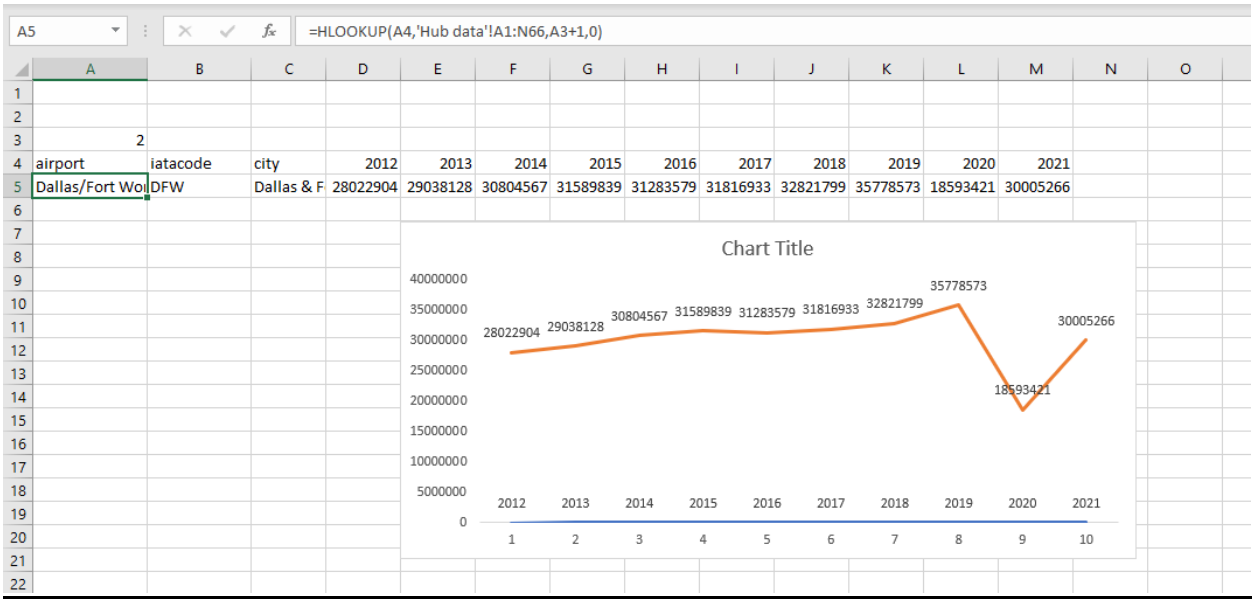


2. Compare the percentage of delayed flights for different days of the week



Count of Delay	Column Labels		
Row Labels	0	1	Grand Total
1	52.78%	47.22%	100.00%
2	54.79%	45.21%	100.00%
3	52.42%	47.58%	100.00%
4	54.22%	45.78%	100.00%
5	57.44%	42.56%	100.00%
6	59.44%	40.56%	100.00%
7	54.23%	45.77%	100.00%
Grand Total	54.88%	45.12%	100.00%

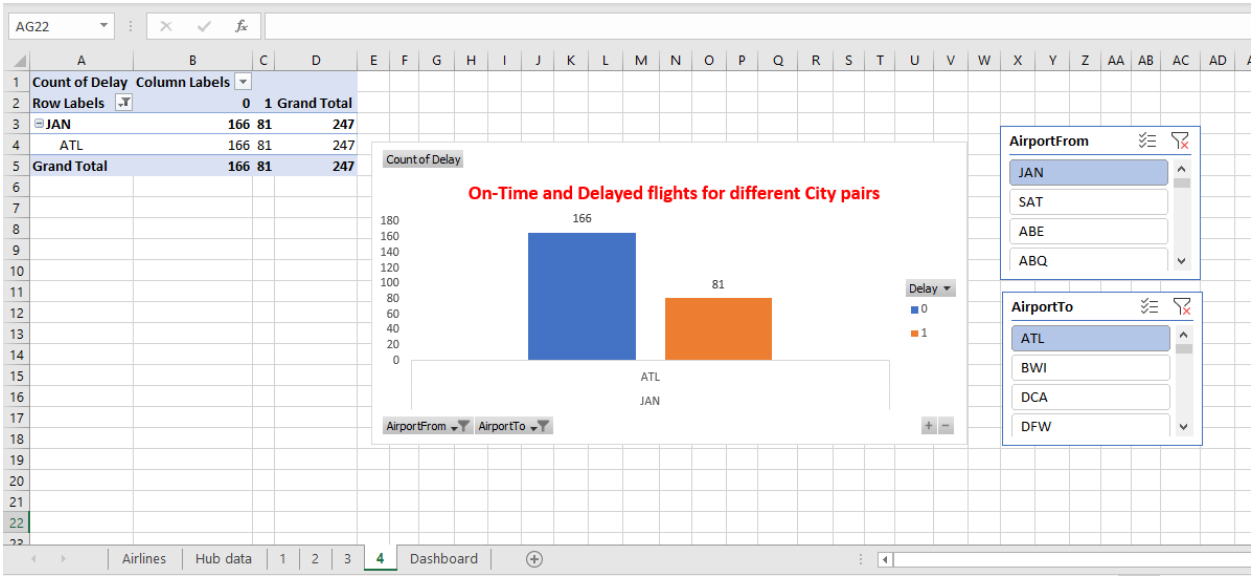
3. Create a trend chart for the number of passengers at large and medium hubs



=HLOOKUP(A4,'Hub data'!A1:N66,A3+1,0)

2													
airport	iatacode	city	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Dallas/Fort Wo	DFW	Dallas & F	28022904	29038128	30804567	31589839	31283579	31816933	32821799	35778573	18593421	30005266	

4. Visualize the count of delayed and on-time flights for different pairs of source anddestination airports
    - Create a dynamic chart that allows users to select a source and destination airport.



Dashboard -