Dashboards with IRIS InterSystems database

Download covid data from https://covidtracking.com/api/v1/states/daily.csv.

Register CSV user at <u>http://www.oureports.com</u> and login.

Connect to your IRIS InterSystems Database and click on New Report link:

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 KML generator Help Report a problem 			Rep	oorts:							
 Contact us 	Search:	Search 6 reports	✓ show generic reports	Redo Initial	Reports (it might take a long tim	e)					
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	HSSYS_INIT_0_11_20_2019_9_0	2AM %Dictionary.ClassDefini	ition locked	copy	2020-1	0-15 10:18:00					
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Put new report name and click Create Report button:

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It will open Report Definition page:

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Export Data to Excel Export Data to CSV Export Data to Delimited File Export Data to XML						

Click the checkbox Advanced User. It will open more:

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Input name for new table or select from the list of existing ones and browse for your csv file or enter url:

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 Show Analytics See Statistics Export Statistics to Excel See Fields Correlation winessi97_7_10_2020_4_01PM 				

Click the "Upload formatted file into table(s)" button. It will upload data from the file selected to your new table or add data to the old one. When finish it will open the page with tables and data fields:

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Click on the Show Report item in the left menu. It will open the generic report. Select fields for groups for Axis X, field for Axis Y, and aggregation function. Click any graph button, more charts button, matrix, etc... to see different reports. Click on the button Dashboard Statistics. In this case the Pie chart is not very informative:



Select another Chart type from dropdown, for example AreaChart:



Click link maximize under the chart Value of [positive] in group by [state, date] to see the chart in details:



Click add to dashboard link. Enter new name of dashboard or select existing:

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It will add chart to dashboards and open the list of user dashboards:

List Of Dashboards	x +		-	×
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 Report a problem 	Link to Dashboard			
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	Covid July 10			

Click on the link of created dashboard:



We can add other reports up to 12 total in the same dashboard.

Click link to maximize and change chart Type to ScatterChart:



Add to dashboard and select it:

Open dashboard:



You can share the dashboard by entering recipient email and clicking button Share.

Let see chart for only one state, for example California. Click Back button, open the List Of reports from left menu and click on our report. Put in Search on the top state=CA, Axis X, Axis Y, aggregate function:

Report	× +											- 0	y ×
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	20200607	CA	120012	2233406	0	4525	0	1200		0 0		0	
	20200606	CA	120010	2102204	0	4526	0	1315		0 0		0	
	20200604	CA	110807	2115562	0	4020	0	1333		0 0		0	
	20200603	CA	117687	2002004	0	4455	0	1313		0 0		0	
	20200624	CA	190222	3402677	0	5399	0	1487		0 0		0	
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Click More Charts button:



Add to dashboard. Change the Chart Type:



You can open List of User Dashboards from the top on the List of Reports page:

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	HSSYS_INIT_00_7_7_2020_3_04PM	HS.FHIRServer.Storage.Json.Resourc	e locked	copy	2020-	10-15 10:18:00				
	HSSYS_INIT_00_7_7_2020_2_06PM	HSSYS.covidjuly7	locked	copy	2020-	10-15 10:18:00				
	HSSYS_INIT_282_11_21_2019_9_07AM	INFORMATION.SCHEMA.TABLES	locked	copy	2020-	10-15 10:18:00				
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It will open the same list of dashboards:

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Click on Covid July 10 link:

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Back	Covid July 10	Log off					^
Value of [positive] in group by [state, date]	p	Value of [positive] in group by [state, date]	• p	Value of [positive] in group by [state, date]	Value of [positive] in group by [date, state]	p	
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Click the Back link to return to the report and then click on Analytics link on left menu:

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Select the field if needed and click on the link "stats dashboard":

Chart type: AreaChart	~	reverse group order	Log off		
Count of records in group by [state, date]	death	Distinct Count of [death] in group by [state, date]	death	Value of [death] in group by [state, date]	Sum of [death] in group by [state, date]
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Avg of [death] in group by [state, date]	death	StDev of [death] in group by [state, date]	death	Max of [death] in group by [state, date]	Min of [death] in group by [state, date]
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Change Chart type and reverse group order:

Click the back link and then the Correlation link on the left menu of the report page:

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 Export Data to XML 	death		recovered	0.59	bar s	tharts	stats dashboard				
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	negal	tvelncrease	totalTestsViral	0.61	bar s	tharts	stats dashboard				
	negal	tive tests viral	positive Tests Viral	0.92	<u>bar</u> <u>c</u>	tharts	stats dashboard				
	positi	ve	death	0.84	bar c	tharts	stats dashboard				-
	l nositr	VA	hospitalized	0.76	har c	charts :	stats dashboard				

Let click on the Stats dashboard link on the row death-positive:



Click link "maximize" under value graph:



You do not have the 'reverse group order" link in this case and should return to the report page and select groups for Axis X and field for Axis Y manually:

Report	× +										- 0	×
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😑 🔸 Show Report	date	state	positive	negative	pending	hospitalizedCurrently ho	spitalizedCumulative	inicuCurrently	inlcuCumulative	onVentilatorCurrently or	VentilatorCumulative	rec
Show Report Graphs	20200710	AK	1323	140608	0	30	0	0		0	0	_
Export Report to Excel Export Report to Wood	20200710	AL	50508	441708	0	1183	3089	0	888	0	493	_
 Export Report to PDF 	20200610	AR	10368	165849	0	181	901	0	(49	147	
Show Analytics	20200610	AS	0	174	0	0	0	0	(0	0	
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 Export Statistics to Excel 	20200610	CA	136191	2404607	0	4719	0	1326	0	0	0	
 See Fields Correlation 	20200511	ME	1462	22092	0	37	200	17	0	9	0	_
	20200610	co	28347	197747	0	305	5025	0	0	0	0	
	20200511	MI	54004	278293	0	1424	0	685	(557	0	
	20200610	CT	44347	272566	0	270	9669	0	0	0	0	_
	20200511	MN	14379	115585	0	452	1716	194	600	0	0	
	20200610	DC	9537	48655	0	245	0	79	0	60	0	
	20200511	MO	9918	105702	0	824	0	0	0	137	0	
	20200610	DE	10056	61689	0	108	0	0	(0	0	
	20200511	MP	19	2676	0	0	0	0	(0	0	
	20200511	MS	9674	86211	0	507	1546	132	(68	0	
	20200511	MT	459	22113	0	4	62	0	(0	0	
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	20200511	ND	1518	45496	0	34	115	0	(0	0	
	20200511	NE	8315	37924	0	0	0	0	0	0	0	
	20200511	NH	3160	31723	261	113	318	0	97	0	0	
	20200511	NJ	139945	285988	0	4195	0	1255	0	970	0	
	20200610	FL	67371	1211652	1134	0	11621	0	0	0	0	
	20200610	GA	53980	516975	0	817	8974	0	1991	0	0	
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and then click on Dashboard Statistics link:



Click on "maximize" link under Value graph:



Click See Statistics on the left menu of report page to open overall data statistics:

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Initian	Friendly Name	Field	Count Coun	Distinct First Value	Last Value	Sum	Min	Max	Average	StDev	95% CI	Var
Definition	date	date	7129 171	20200710	20200511			1				
Phone	state	state	7129 56	AK	MD				1			
Data	positive	positive	7129 5085	1323	33373	160188918	0	400299	22470.04	49344.37	22470.04 +- 1145.46	2434866554.41
Excel	negative	negative	7129 5808	140608	131407	1397901326	0	487144	196086.55	420419.8	1 196086.59 +- 9759.44	176752814905.6
	pending	pending	7129 444	0	0	1139835	0	64400	159.89	2313.45	159.89 +- 53.7	5352047.66
Delimited File	hospitalizedCurrently	hospitalizedCurrently	7129 1718	30	1544	4259036	0	18825	597.42	1528.42	597.42 +- 35.48	2336063.98
IML	hospitalizedCumulative	hospitalizedCumulative	7129 2195	0	6183	17116325	0	89995	2400.94	9757.47	2400.94 +- 226.51	95208244.4
	inicuCurrently	inicuCurrently	7129 817	0	585	930477	0	5225	130.52	428.16	130.52 +- 9.94	183317.48
mha	inlcuCumulative	inlcuCumulative	7129 632	0	0	662889	0	2565	92.98	320.08	92.98 +- 7.43	102453.11
Event	onVentilatorCurrently	onVentilatorCurrently	7129 542	0	0	401871	0	2425	56.37	186.63	56.37 +- 4.33	34829.69
TI local	onVentilatorCumulative	onVentilatorCumulative	7129 167	0	0	59597	0	493	8.36	44.64	8.36 +- 1.04	1993.06
HOT	recovered	recovered	7129 2518	588	2298	40086651	0	122996	5623.04	14020.02	5623.04 +- 325.45	196560934.11
PDF	dataQualityGrade	dataQualityGrade	7129 7	A	A							1
	lastUpdateEt	lastUpdateEt	7129 3264	7/10/2020 00:00	5/11/2020 10:00							
	dateModified	dateModified	7129 3264	2020-07-10T00 00 00Z	2020-05-11T10 00 00Z							
to Excel	checkTimeEt	checkTimeEt	7129 3264	07/09 20:00	05/11 06:00							
ation	death	death	7129 2178	17	1788	8007261	0	24968	1123.2	2979.3	1123.2 +- 69.16	8876247.25
	hospitalized	hospitalized	7129 2195	0	6183	17116325	0	89995	2400.94	9757.47	2400.94 +- 226.51	95208244.4
	dateChecked	dateChecked	7129 3264	2020-07-10T00 00:00Z	2020-05-11T10:00:00Z							
	totalTestsViral	totalTestsViral	7129 1914	141931	0	800723746	0	517573	112319.22	381193 27	112319 22 +- 8848 85	145308305330.93
	positiveTestsViral	positiveTestsViral	7129 633	0	0	23113615	0	305374	3242.2	16470.28	3242.2 +- 382.33	271270172.46
	negativeTestsViral	negative Tests Viral	7129 664	0	0	252646333	0	263352	35439.24	177551.6	3 35439 24 +- 4121.61	31524580811.46
	positiveCasesViral	positiveCasesViral	7129 3311	0	33373	124574592	0	400299	17474.34	46719.85	17474.34 +- 1084.53	2182744554.21
	deathConfirmed	deathConfirmed	7129 1262	17	1698	3600916	0	13532	505.11	1585.84	505.11 +- 36.81	2514895.69
	deathProbable	deathProbable	7129 233	0	90	160531	0	1947	22.52	116.63	22.52 +- 2.71	13602.71
	fips	fips	7129 56	02	24							
	positiveIncrease	positiveIncrease	7129 1528	51	786	3167867	-455	11694	444.36	1019.41	444.36 +- 23.66	1039196.15
	negativeIncrease	negativeIncrease	7129 4269	6136	4063	35687330	-7488	163092	5005.94	10325.74	5005.94 +- 239.7	106620843.17
	total	total	7129 6207	141931	164780	1559230079	0	517573	218716.5	461879.4	218716 52 +- 10721.87	213332663912.64
	totalTestResults	totalTestResults	7129 6200	141931	164780	1558090244	0	517573	218556.6	3 461887.4	218556.63 +- 10722.05	213339966181.85
	totalTestResultsIncrease	totalTestResultsIncreas	7129 4384	6187	4849	38855197	-7418	165227	5450.3	10929.54	5450.3 +- 253.71	119454843.99
	posNeg	posNeg	7129 6200	141931	164780	1558090244	0	517573	218556.63	461887.4	218556.63 +- 10722.05	213339966181.85
	deathIncrease	deathIncrease	7129 251	0	49	126444	-213	1877	17.74	56.25	17.74 +- 1.31	3163.65
	hospitalizedIncrease	hospitalizedincrease	7129 364	0	228	257567	-4124	16373	36.13	283.69	36.13 +- 6.59	80478.69
	hash	hash	7129 7129	7337a3e96732733e1dad90b6631e3e4	4316bba0ff 8389dc6b6c99243f936c71768229aebb5732c	157						
	commercialScore	commercialScore	7129 1	0	0	0	0	0	0	0	0+-0	0
	negativeRegularScore	negativeRegularScore	7129 1	0	0	0	0	0	0	0	0+-0	0
	negativeScore	negativeScore	7129 1	0	0	0	0	0	0	0	0 +- 0	0
	positiveScore	positiveScore	7129 1	0	0	0	0	0	0	0	0 +- 0	0
	score	score	7129 1	0	0	0	0	0	0	0	0 +- 0	0
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	20200710 AZ	116892	552319	0	3432	5659	876	0	615	0	13853	A+	7/10/2020	2020-07- 10T00-00-00Z	07/09 20:00	2082	5659	2020-07- 10T00 00 00Z 66852
	20200710 CA	304297	4871440	0	7896	0	2005	0	0	0	0	в	7/10/2020	2020-07- 10T00:00:00Z	07/09 20:00	6851	0	2020-07- 10T00:00:00Z 5175
	20200710 CO	35525	341615	0	318	5831	0	0	0	0	4691	A	7/10/2020 01:59	2020-07- 10T01:59:00Z	07/09 21:59	1581	5831	2020-07- 10T01 59:00Z 0
	20200710 CT	47287	510922	0	77	10552	0	0	0	0	8351	в	7/9/2020 20:30	2020-07- 09T20:30:00Z	07/09 16:30	4348	10552	2020-07- 09T20 30:00Z 5562
	20200710 DC	10743	110141	0	96	0	26	0	18	0	1703	A+	7/9/2020 00:00	2020-07- 09T00:00:00Z	07/08 20:00	568	0	2020-07- 09T00:00:00Z 0
	20200710 DE	12652	120056	0	58	0	11	0	0	0	6949	A+	7/9/2020 18:00	2020-07- 09T18:00:00Z	07/09 14:00	517	0	2020-07- 09T18:00:00Z 0
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	20200710 GA	111211	935137	0	2443	12937	0	2565	0	0	0	A	7/10/2020 14:50	2020-07- 10T14:50:00Z	07/10 10:50	2965	12937	2020-07- 10T14:50:00Z 1046
	20200610 AS	0	174	0	0	0	0	0	0	0	0	с	6/1/2020 00:00	2020-06- 01T00.00.00Z	05/31 20:00	0	0	2020-06- 01T00 00.00Z 0
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	20200610 DC	9537	48655	0	245	0	79	0	60	0	1143	A+	6/9/2020 00:00	2020-06- 09T00:00:00Z	06/08 20:00	499	0	2020-06- 09T00 00:00Z 0
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	20200710 GU	310	16556	0	3	0	0	0	0	0	202	В	7/9/2020 22:00	2020-07- 09T22-00-00Z	07/09 18:00	5	0	2020-07- 09T22:00:00Z 16850
	20200710 HI	1130	89465	0	0	123	0	0	0	0	840	D	7/9/2020 18:00	2020-07- 09T18 00 00Z	07/09 14:00	19	123	2020-07- 09T18:00:00Z 10700
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To see results for one state AZ for example, fill out Search fields and click the Search button:

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· Export Report to PDF	20200610	AZ	29852	269835	0	1274	4000	413		0 273	0	
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 See Statistics 	20200608	AZ	27678	260403	0	1266	3911	390		0 246	0	
 Export Statistics to Excel 	20200607	AZ	26889	254732	0	1252	3847	392		0 248	0	
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	20200605	AZ	24332	239533	0	1234	3712	375		0 241	0	
	20200604	AZ	22753	227002	0	1079	3642	375		0 223	0	
	20200603	AZ	22233	222292	0	1092	3589	379		0 239	0	
	20200602	AZ	21250	216583	0	1009	3520	380		0 235	0	
	20200708	AZ	108614	532456	0	3421	5387	871		0 570	0	- 1
	20200707	AZ	105094	523703	0	3356	5272	869		0 544	0	
	20200706	AZ	101441	516400	0	3212	5188	839		0 533	0	
	20200705	AZ	98089	506273	0	3182	5161	821		0 531	0	
	20200704	AZ	94553	494955	0	3113	5068	796		0 413	0	
	20200703	AZ	91858	486523	0	3013	5018	741		0 489	0	
	20200702	AZ	8/425	4/3414	0	2938	4916	723		0 488	0	
	20200601	AZ	20123	207947	0	968	3445	377		0 238	0	
	20200701	AZ	84092	465504	0	2876	4837	675		0 466	0	
	20200630	AZ	79215	453141	0	2793	4736	683		0 455	0	
	20200629	AZ IZ	74533	436890	0	2721	4634	679		465	0	
	20200628	AZ.	73908	435988	0	2691	4617	666		475	0	
	20200627	AZ	70051	424696	0	2577	4595	657		433	0	
	20200626	AZ AZ	66548	413275	0	2110	4514	581		312	0	
	20200625	A2	63030	401166	0	2453	4406	611		415	0	

Click "More Charts" button:



Add to dashboard and see it:

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Click on other links and buttons in Report, Analytics, Correlation pages to see the different tabular and graphic reports.