

Simple Cruise Management System (SCMS)

CS 4400: Introduction to Database Systems
Course Project: Summer 2024 Semester

Examples of View Data for the Course Project: Phase 3

-- [13] cruises_at_sea()

This view describes where cruises that are currently at sea are located. We need to display what ports these cruises are departing from, what ports they are arriving at, the number of cruises that are sailing between the departure and arrival port, the list of those cruises, the earliest and latest arrival times for the destinations and the list of ships (by the location id) supporting these cruises.

departing_from	arriving_at	num_cruises	cruise_list	earliest_arrival	latest_arrival	ship_list
BCA	MAR	1	pn_16	14:00:00	14:00:00	ship_26
COP	SHA	1	nw_20	11:00:00	11:00:00	ship_24
MIA	NSU	1	rc_10	08:00:00	08:00:00	ship_1
SEA	VAN	1	cn_38	14:30:00	14:30:00	ship_23

-- [14] cruises_docked()

This view describes where cruises that are currently docked are located. We need to display what ports these cruises are departing from, how many cruises are departing from each port, the list of cruises departing from each port, the earliest and latest arrival time amongst all of these cruises at each port, and the list of ships (by their location id) that are departing from each port. Note that you are only expected to show cruises that are yet to depart, (don't show cruises that are docked at the final port on their route).

departing_from	num_cruises	cruise_list	earliest_departure	latest_departure	ship_list
MIA	1	dy_61	09:30:00	09:30:00	ship_7
VEN	1	rc_51	11:30:00	11:30:00	ship_25

-- [15] people_at_sea()

This view describes where people who are currently sailing are located. We need to display what ports these people are departing from, what ports they are arriving at, the list of ships (by the location id) these people are on, the list of cruises these people are on, the earliest and latest arrival times of these people, the number of these people that are crew, the number of these people that are passengers, the number of people on the ship, and the list of these people by their person id.

departing_from	arriving_at	num_ships	ship_list	cruise_list	earliest_arri...	latest_arrival	num_crew	num_passengers	num_people	person_list
BCA	MAR	1	ship_26	pn_16	14:00:00	14:00:00	3	4	7	p11,p13,p14,p37,p38,p39,p40
COP	SHA	1	ship_24	nw_20	11:00:00	11:00:00	4	4	8	p10,p15,p7,p9,p33,p34,p35,p36
MIA	NSU	1	ship_1	rc_10	08:00:00	08:00:00	3	4	7	p1,p12,p2,p21,p22,p23,p24
SEA	VAN	1	ship_23	cn_38	14:30:00	14:30:00	2	4	6	p3,p4,p25,p26,p27,p28

-- [16] people_docked()

This view describes where people who are currently docked are located. We need to display what ports these people are departing from by port id, location id, and port name, the city and state of these port, the number of these people that are crew, the number of these people that are passengers, the number people at the

port, and the list of these people by their person id. Note that you are only expected to show people that are yet to depart, (don't show people who are docked at the final port on their route).

departing_from	ship_port	port_name	city	state	country	num_crew	num_passengers	num_people	person_list
MIA	port_1	Port of Miami	Miami	Florida	USA	2	4	6	p5,p6,p29,p30,p31,p32
VEN	port_14	Port of Venice	Venice	Veneto	ITA	3	4	7	p16,p17,p18,p41,p42,p43,p44

-- [17] route_summary()

This view will give a summary of every route. This will include the routeID, the number of legs per route, the legs of the route in sequence, the total distance of the route, the number of cruises on this route, the cruiseIDs of those cruises, and the sequence of ports visited by the route.

route	num_legs	leg_sequence	route_length	num_cruises	cruise_list	port_sequence
americas_one	2	leg_2,leg_1	982	1	rc_10	MIA->NSU,NSU->SJN
americas_three	2	leg_31,leg_14	1265	1	cn_38	LAS->SEA,SEA->VAN
americas_two	1	leg_4	29	1	dy_61	MIA->EGS
big_mediterranean_loop	4	leg_47,leg_15,leg_27,leg_33	2293	1	rc_51	BCA->MAR,MAR->CVA,CVA->VEN,VEN->PIR
euro_north	2	leg_64,leg_78	1230	1	nw_20	STM->COP,COP->SHA
euro_south	2	leg_47,leg_15	497	3	hg_99,mc_47,pn_16	BCA->MAR,MAR->CVA

-- [18] alternative_ports()

This view displays ports that share the same country. It should specify the country, the number of ports shared, and the lists of the port codes and port names that are shared.

country	num_ports	port_code_list	port_name_list
AUS	1	SYD	Port of Sydney
BHS	1	NSU	Port of Nassau
BRB	1	BRI	Port of Bridgetown
CAN	1	VAN	Port of Vancouver
DEN	1	COP	Port of Copenhagen
ESP	1	BCA	Port of Barcelona
FRA	1	MAR	Port of Marseille
GBR	1	SHA	Port of Southampton
GRC	1	PIR	Port of Piraeus
ITA	2	CVA,VEN	Port of Civitavecchia,Port of Venice
MEX	1	CZL	Port of Cozumel
SWE	1	STM	Port of Stockholm
USA	9	CNL,EGS,GVN,LAS,MIA,NOS,SEA,SJN,TMP	Port Canaveral,Port Everglades,Port of Galveston,Port of Los Angeles,Port of Miami,Port of New Orleans,Port of San Juan,Port of S...
USV	1	STS	Port of St. Thomas

Version History

Version	Date	Notes
0	July 1, 2024	Initial Release