

Simple Cruise Management System (SCMS)

CS 4400: Introduction to Database Systems

Course Project: Summer 2024 Semester

Sample Test Cases for Phase 3

How does your system handle the following calls? For procedures, what should the state of the system be after the given calls (especially for the specified tables)?

-- [1] add_ship()

```
call add_ship('Carnival', 'Firenze', 4126, 18, 'ship_41', 'ocean_liner', null, 20);
call add_ship('Disney', 'Magic', 3400, 16, 'ship_23', 'ocean_liner', null, 30);
call add_ship('Oceania', 'Riptide', 1200, 25, 'ship_28', 'ocean_liner', null, 10);
call add_ship('MSC', 'Armonia', 3422, 18, 'ship_99', 'ocean_liner', null, 15);
call add_ship('Ponant', 'Le Mirage', 400, 15, 'ship_56', 'river', false, null);
call magic44_query_check_and_run(12); -- ship
```

-- [2] add_port()

```
call add_port('PDM', 'Port of The Balearic Islands', 'Palma', 'Majorca', 'ESP', 'port_33');
call add_port('PSD', 'Port of San Diego', 'San Diego', 'California', 'USA', 'port_2');
call magic44_query_check_and_run(13); -- ship_port
```

-- [3] add_person()

```
call add_person('p61', 'Sabrina', 'Duncan', 'port_1', '366-50-3732', 27, null, null);
call add_person('p61', 'Kelly', 'Garrett', 'port_2', null, null, 451, 900);
call add_person('p57', 'Jill', 'Munroe', 'port_100', '401-47-9115', 10, null, null);
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(21); -- crew
call magic44_query_check_and_run(15); -- passenger
```

-- [4] grant_or_revoke_license()

```
call grant_or_revoke_license('p1', 'river');
call grant_or_revoke_license('p1', 'ocean_liner');
call grant_or_revoke_license('p23', 'ocean_liner');
call grant_or_revoke_license('p100', 'river');
call magic44_query_check_and_run(22); -- licenses
```

-- [5] offer_cruise()

```
call offer_cruise('ca_41', 'americas_three', 'Costa', 'Costa Smeralda', 0, '11:30:00', 400);
call offer_cruise('oa_43', 'big_mediterranean_loop', 'Oceania', 'Marina', 2, '9:15:00', 100);
call offer_cruise('cd_19', 'big_mediterranean_loop', 'Cunard', 'Queen Mary 2', 0, '10:00:00', 400);
call offer_cruise('vo_41', 'americas_three', 'Viking Ocean', 'Viking Orion', 1, '11:30:00', 400);
call magic44_query_check_and_run(20); -- cruise
```

-- [6] cruise_arriving()

```
call cruise_arriving('rc_10');
call cruise_arriving('cn_38');
```

```
call cruise_arriving('pn_16');
call cruise_arriving('dy_61');
call cruise_arriving('nw_20');
call magic44_query_check_and_run(21); -- crew
call magic44_query_check_and_run(15); -- passenger
call magic44_query_check_and_run(20); -- cruise
```

-- [7] cruise_departing()

```
call cruise_departing('nw_20');
call cruise_departing('');
call cruise_departing('rc_10');
call cruise_departing('rc_51');
call magic44_query_check_and_run(20); -- flight
```

-- [8] person_boards()

```
call passengers_board('p16');
call passengers_board('p17');
call passengers_board('p18');
call passengers_board('p5');
call passengers_board('p10');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(23); -- person_occupies
```

-- [9] person_disembark()

```
call person_disembark('p5');
call person_disembark('p6');
call person_disembark('p14');
call person_disembark('p1');
call person_disembark('p10');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(23); -- person_occupies
```

-- [10] assign_crew()

```
call assign_crew('nw_20', 'p18');
call assign_crew('rc_51', 'p20');
call assign_crew('dy_61', 'p17');
call assign_crew('cn_38', 'p12');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(21); -- crew
```

-- [11] recycle_crew()

```
call recycle_crew('nw_20');
call recycle_crew('hg_99');
call recycle_crew('dy_61');
call recycle_crew('cn_38');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(21); -- crew
```

-- [12] retire_flight()

```
call retire_flight('pn_16');  
call retire_flight('hg_99');  
call retire_flight('dy_61');  
call retire_flight('cn_38');  
call magic44_query_check_and_run(20); -- flight
```

-- [13] simulation_cycle()

```
call simulation_cycle();  
call magic44_query_check_and_run(12); -- ship  
call magic44_query_check_and_run(14); -- person  
call magic44_query_check_and_run(21); -- crew  
call magic44_query_check_and_run(22); -- licenses  
call magic44_query_check_and_run(15); -- passenger  
call magic44_query_check_and_run(20); -- cruise
```