# 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(16); -- person_occupies*
*call magic44_query_check_and_run(22); -- 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(23); -- 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(22); -- crew
call magic44_query_check_and_run(15); -- passenger
call magic44_query_check_and_run(20); -- cruise
call magic44_query_check_and_run(16); -- person_occupies
```

-- **[7] cruise_departing()**
```
call cruise_departing('rc_51');
call cruise_arriving('dy_61');
call cruise_departing('');
call cruise_departing('nw_20');
call cruise_departing('rc_10');
call magic44_query_check_and_run(20); -- cruise
call magic44_query_check_and_run(16); -- person_occupies
```

-- **[8] person_boards()**
```
call person_boards('p5', 'dy_61');
call person_boards('p16', 'rc_51');
call person_boards('p17', 'rc_51');
call person_boards('p18', 'rc_51');
call person_boards('p10', 'nw_20');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(23); -- person_occupies
```

-- **[9] person_disembark()**
```
call person_disembarks('p41', 'rc_51');
call person_disembarks('p10', 'nw_20');
call person_disembarks('p5', 'dy_61');
call person_disembarks('p6', 'dy_61');
call person_disembarks('p14', 'pn_16');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(23); -- person_occupies
```

-- **[10] assign_crew()**
```
call assign_crew('dy_61', 'p0');
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(22); -- crew
```

-- **[11] recycle_crew()**
```
call recycle_crew('hg_99');
call recycle_crew('nw_20');
```

```
call recycle_crew('dy_61');
call recycle_crew('cn_38');
call magic44_query_check_and_run(14); -- person
call magic44_query_check_and_run(22); -- crew
```

**-- [12] retire_flight()**
```
call retire_flight('mc_47');
call retire_flight('hg_99');
call retire_flight('dy_61');
call retire_flight('cn_38');
call magic44_query_check_and_run(20); -- cruise
```