

```
Use ellis_island_immigration_1892_1920;
```

```
-- sql block using joins and filtering statements
```

```
Create or Replace View american_jobs As
```

```
    Select Concat(first_name, ' ', last_name) as 'Name', age,  
    occupation, nationality,
```

```
        arrival_date
```

```
    From occupation o
```

```
        join passengers p
```

```
            on p.occupation_id = o.occupation_id
```

```
        join nationality n
```

```
            on n.nationality_id = p.nationality_id
```

```
        join ships s
```

```
            on p.ship_id = s.ship_id
```

```
    Where n.nationality_id = 1
```

```
    Order by last_name;
```

```
-- aggregate function summary query
```

```
Create or Replace View total_pass As
```

```
    Select Min(arrival_date) as first_ship, Max(arrival_date) as  
    last_ship,
```

```
        Count(total_passengers) as total_number_of_passengers
```

```
    From passengers join ships;
```

```
-- subquery
```

```
Create or Replace View marital_subquery As
```

```
    Select Concat(first_name, ' ', last_name) as 'Name', age,  
    marital_status
```

```
    From passengers
```

```
    Where nationality_id in
```

```
        (Select nationality_id
```

```
            From nationality
```

```
            Where nationality_id > 20)
```

```
    Order by marital_status;
```

```
/* Final Project Query, (Ethan) An Pham */
/* Uses JOIN, Filtering, and Aggregate Function */
USE ellis_island_immigration_1892_1920;
```

```
CREATE OR REPLACE VIEW ages_of_adults AS
    SELECT country_name AS country, MIN(age) AS youngest_person,
    MAX(age) AS oldest_person, AVG(age) AS average_age
    FROM country_of_origin
    JOIN passengers
        USING (country_of_origin_id)
    WHERE age >= 18
    GROUP BY country_name
    ORDER BY average_age;
```

```
USE ellis_island_immigration_1892_1920;
CREATE OR REPLACE VIEW nationality_depart_Patras AS
    SELECT CONCAT(first_name, ' ', last_name) AS Name, port_name AS
Port, nationality AS Nationality
    FROM nationality JOIN passengers USING(nationality_id) JOIN ships
    USING(ship_id) JOIN departure_port USING(departure_port_id)
    WHERE port_name = "Patras"
    ORDER BY nationality;
```

```
USE ellis_island_immigration_1892_1920;
CREATE OR REPLACE VIEW nationality_depart_Hamburg_via_St_Johns AS
    SELECT CONCAT(first_name, ' ', last_name) AS Name, port_name AS
Port, nationality AS Nationality
    FROM nationality JOIN passengers USING(nationality_id) JOIN ships
    USING(ship_id) JOIN departure_port USING(departure_port_id)
    WHERE port_name = "Hamburg via Newcastle St Johns"
    ORDER BY nationality ;
```

```
USE ellis_island_immigration_1892_1920;
```

```
/* Query 1 */
SELECT ship_name, first_name, last_name, age, arrival_date
FROM passengers JOIN ships
      USING(ship_id)
WHERE age = 20
ORDER BY arrival_date, last_name;
```

```
/* Query 2 */
SELECT place_name, COUNT(residence_place_id) AS place_count
FROM passengers JOIN residence_place
      USING(residence_place_id)
GROUP BY residence_place_id
ORDER BY place_count DESC;
```

```
/* Query 3 */
SELECT CONCAT(first_name, ' ', last_name) AS full_name, port_name,
place_name AS residence_place
FROM passengers JOIN ships
      USING(ship_id)
JOIN departure_port
      USING(departure_port_id)
JOIN residence_place
      USING(residence_place_id)
WHERE place_name = 'NA';
```

```
USE ellis_island_immigration_1892_1920;
```

```
SELECT CONCAT(last_name, ', ', first_name) AS name, sex, age, nationality,
country_name, place_name AS place
      FROM passengers
      JOIN nationality USING(nationality_id)
      JOIN country_of_origin USING(country_of_origin_id)
      JOIN residence_place USING(residence_place_id)
ORDER BY last_name;
```