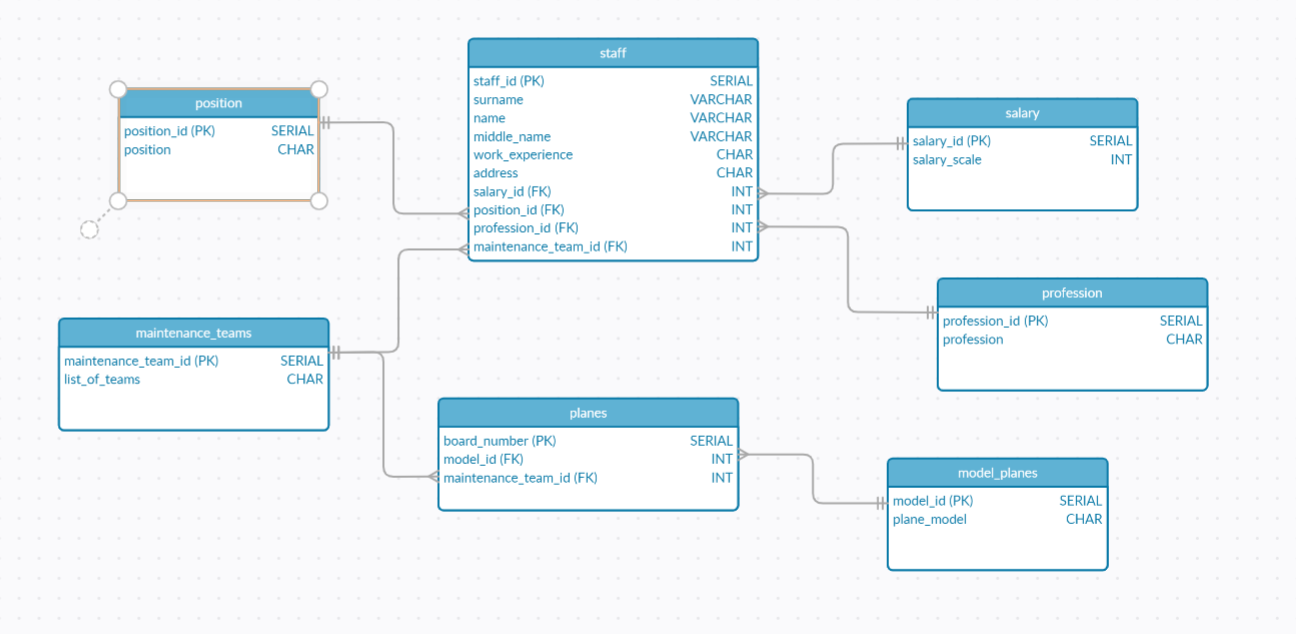
**CREATE DATABASE**

CREATE DATABASE Airport;

**ERD DIAGRAM**

**CREATE TABLE**

1)

CREATE TABLE position(

position\_id SERIAL PRIMARY KEY,

position CHAR(255)

);

2)

CREATE TABLE maintenance\_teams(

maintenance\_team\_id SERIAL PRIMARY KEY,

list\_of\_teams CHAR(255)

);

3)

CREATE TABLE planes(

board\_number SERIAL PRIMARY KEY,

model\_id INT REFERENCES model\_planes(model\_id),

maintenance\_team\_id INT REFERENCES maintenance\_teams(maintenance\_team\_id )

);

4)

CREATE TABLE profession(

profession\_id SERIAL PRIMARY KEY,

profession CHAR(255)

);

5)

CREATE TABLE salary(

salary\_id SERIAL PRIMARY KEY,

salary\_scale INT

);

6)

CREATE TABLE model\_planes(

model\_id SERIAL PRIMARY KEY,

plane\_model CHAR(255)

);

7)

CREATE TABLE staff(

staff\_id SERIAL PRIMARY KEY,

surname VARCHAR(255),

name VARCHAR(255),

middle\_name VARCHAR(255),

work\_experience CHAR(255),

address CHAR(255),

salary\_id INT REFERENCES salary(salary\_id),

position\_id INT REFERENCES position(position\_id),

profession\_id INT REFERENCES profession(profession\_id),

maintenance\_team\_id INT REFERENCES maintenance\_teams(maintenance\_team\_id)

);

**ALTER TABLE STATEMENT**

1. ALTER TABLE staff ADD COLUMN summer\_composition\_id INT;
2. ALTER TABLE staff DROP COLUMN summer\_composition\_id;
3. ALTER TABLE staff ALTER address SET NOT NULL;
4. ALTER TABLE staff RENAME TO personal;
5. ALTER TABLE personal RENAME COLUMN work\_experience TO experience;

**Insert**

1)

INSERT INTO position(position)

VALUES('flight\_support\_dispatcher'),

('air\_navigation\_specialist'),

('maintenance\_Manager'),

('equipment\_maintenance\_engineer'),

('passenger\_registration\_agent'),

('receptionist'),

('loader'),

('driver'),

('customs\_declarant'),

('navigator');

2)

insert into salary (salary\_scale) values ('398914');

insert into salary (salary\_scale) values ('69573');

insert into salary (salary\_scale) values ('50834');

insert into salary (salary\_scale) values ('156555');

insert into salary (salary\_scale) values ('1611494');

insert into salary (salary\_scale) values ('958088');

insert into salary (salary\_scale) values ('3600388');

insert into salary (salary\_scale) values ('106777');

insert into salary (salary\_scale) values ('1281894');

insert into salary (salary\_scale) values ('1382219');

3)

INSERT INTO profession(profession)

VALUES('engineer'),

('Steward'),

('Civil\_aviation\_pilot'),

('Air\_traffic\_controller'),

('Fireman'),

('Law\_enforcement\_officers'),

('it\_specialist'),

('Customs\_officer'),

('Physicians'),

('Aircraft\_designer');

4)

INSERT INTO maintenance\_teams(list\_of\_teams)

VALUES('Border\_control'),

('Security control'),

('Customs\_control'),

('Service\_of\_passengers'),

('Air\_fuel\_refueling\_service'),

('Maintenance\_on\_transit\_shape'),

('Forklift\_Transporter'),

('Telescopic\_ladder'),

('Escort\_car'),

('Aviation\_security');

5)

INSERT INTO model\_planes(plane\_model)

VALUES('The\_Wright\_Flyer'),

('Concorde'),

('Air\_Force\_One '),

('Supermarine\_Spitfire'),

('Airbus A380'),

('Spirit\_of\_St\_Louis'),

('Lockheed\_Vega\_5b'),

('Gulfstream GIV'),

('Cessna Citation XL'),

('SpaceShipTwo');

6)

insert into planes (model\_id , maintenance\_team\_id ) values (1, 1);

insert into planes (model\_id , maintenance\_team\_id ) values (2, 2);

insert into planes (model\_id , maintenance\_team\_id ) values (3, 3);

insert into planes (model\_id , maintenance\_team\_id ) values (4, 4);

insert into planes (model\_id , maintenance\_team\_id ) values (5, 5);

insert into planes (model\_id , maintenance\_team\_id ) values (6, 6);

insert into planes (model\_id , maintenance\_team\_id ) values (7, 7);

insert into planes (model\_id , maintenance\_team\_id ) values (8, 8);

insert into planes (model\_id , maintenance\_team\_id ) values (9, 9);

insert into planes (model\_id , maintenance\_team\_id ) values (10, 10);

7)

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Kensy', 'Kimberlyn', 'Geistmann', 8, '70 Columbus Park', 1, 1, 1, 1);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Shalders', 'Essie', 'Hurnell', 27, '0 Shasta Circle', 2, 2, 2, 2);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Menelaws', 'Tova', 'Eddoes', 9, '7 Armistice Drive', 3, 3, 3, 3);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Colten', 'Amby', 'Troppmann', 15, '19950 Talisman Parkway', 4, 4, 4, 4);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Ventham', 'Ede', 'Brew', 6, '023 Welch Point', 5, 5, 5, 5);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Marritt', 'Saidee', 'Nardi', 10, '794 Springview Drive', 6, 6, 6, 6);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Arnet', 'Lucho', 'Kernoghan', 18, '01 Lighthouse Bay Junction', 7, 7, 7, 7);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Huton', 'Ddene', 'Waine', 29, '2 Sachs Junction', 8, 8, 8, 8);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Hillyatt', 'Angelo', 'Jojic', 29, '5 Anhalt Place', 9, 9, 9, 9);

insert into personal (surname, name, middle\_name, experience, address, salary\_id, position\_id, profession\_id, maintenance\_team\_id) values ('Dyte', 'Grover', 'Morrell', 4, '591 Ronald Regan Street', 10, 10, 10, 10);

**Update**

1)

UPDATE maintenance\_teams

SET list\_of\_teams='aviation\_engineering\_division'

WHERE maintenance\_team\_id = 5;

2)

UPDATE model\_planes

SET plane\_model = 'Bombardier CSeries'

WHERE model\_id = 3;

3)

UPDATE personal

SET experience = 10

WHERE staff\_id >= 5;

4)

UPDATE position

SET position = 'Gate Agent'

WHERE position\_id = 4;

5)

UPDATE profession

SET profession = 'Ticketing'

WHERE profession\_id = 8;

6)

UPDATE salary

SET salary\_scale = '20000'

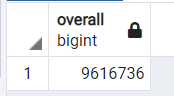
WHERE salary\_scale < '20000';

**Query**

1)

SELECT SUM(salary\_scale) AS overall

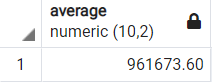
FROM salary;



2)

SELECT AVG(salary\_scale) :: numeric(10, 2) AS average

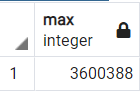
FROM salary;



3)

SELECT MAX(salary\_scale) AS max

FROM salary;



4)

SELECT MIN(salary\_scale) AS min

FROM salary;



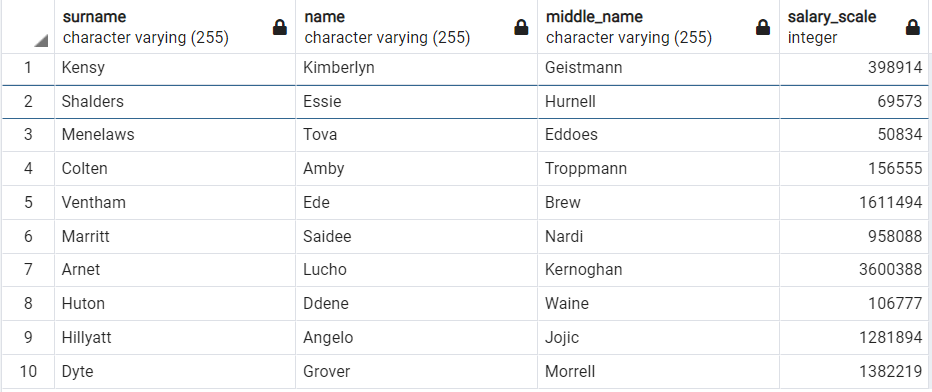
5)

SELECT surname, name, middle\_name, salary\_scale

FROM personal

INNER JOIN salary

ON personal.salary\_id=salary.salary\_id;



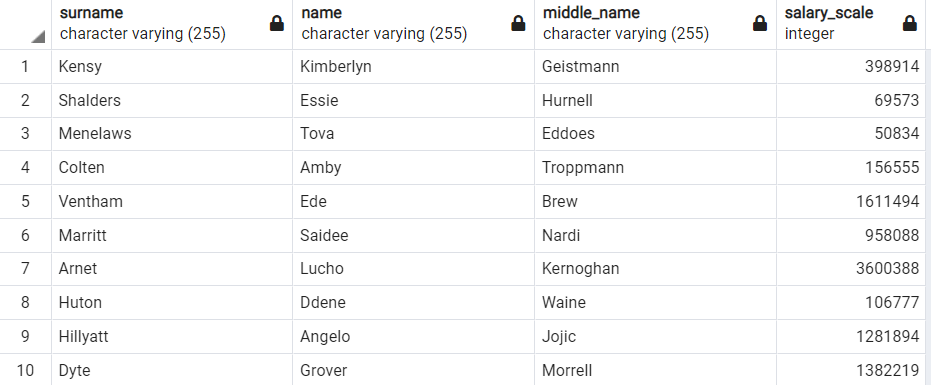
6)

SELECT surname, name, middle\_name, salary\_scale

FROM personal

LEFT JOIN salary

ON personal.salary\_id=salary.salary\_id;



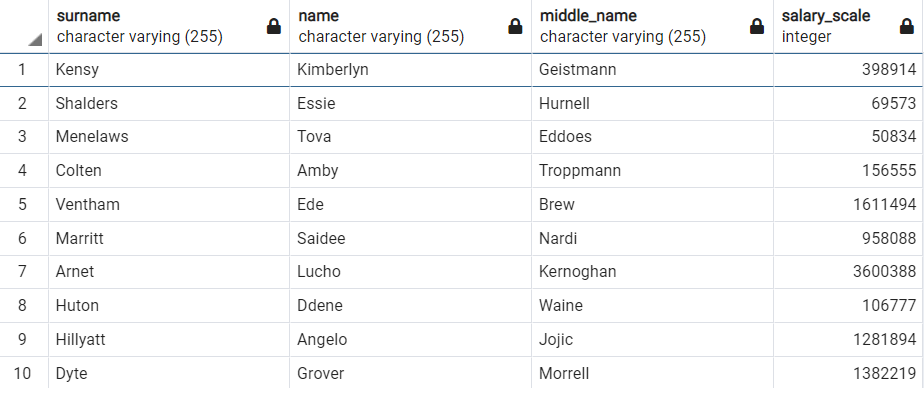
7)

SELECT surname, name, middle\_name, salary\_scale

FROM personal

RIGHT JOIN salary

ON personal.salary\_id=salary.salary\_id;



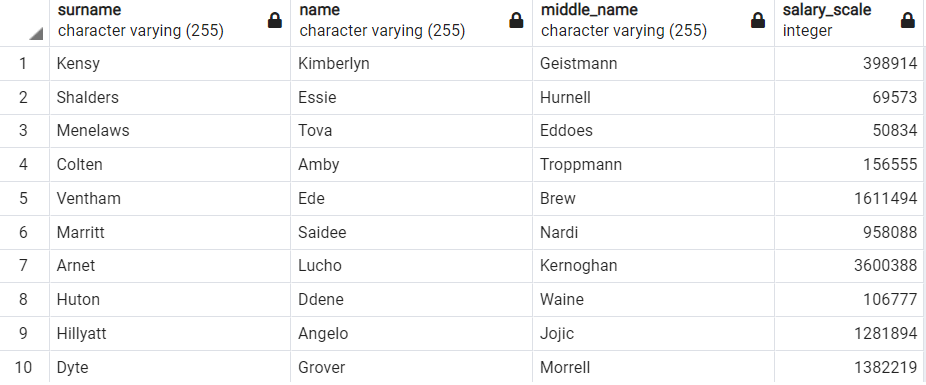
8)

SELECT surname, name, middle\_name, salary\_scale

FROM personal

FULL JOIN salary

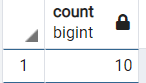
ON personal.salary\_id=salary.salary\_id;



9)

SELECT COUNT(\*)

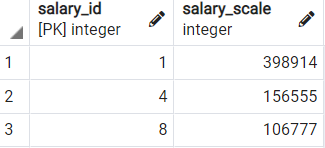
FROM planes;



10)

SELECT \* FROM salary

WHERE salary\_scale BETWEEN 100000 AND 450000;

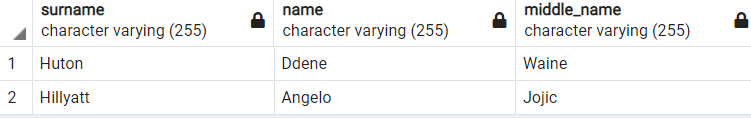


11)

SELECT surname, name, middle\_name

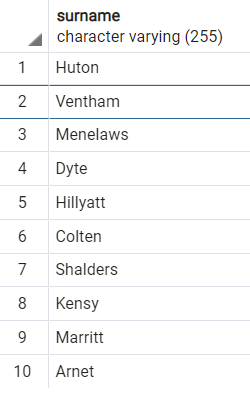
FROM personal

WHERE SURNAME LIKE 'H%';



12)

SELECT DISTINCT surname FROM personal;



**Delete**

DELETE FROM planes;

DELETE FROM personal;

DELETE FROM maintenance\_teams;

DELETE FROM model\_planes;

DELETE FROM position;

DELETE FROM profession;

DELETE FROM salary;