INSERT INTO subway\_station  
VALUES (1, '[Devyatkino](https://en.wikipedia.org/wiki/Devyatkino_(Saint_Petersburg_Metro))', 4, 6, '05:28:00', '00:28:00', 2);

INSERT INTO subway\_station  
VALUES (2, ' [Parnas](https://en.wikipedia.org/wiki/Parnas_(Saint_Petersburg_Metro))', 5, 4, '05:34:00', '00:47:00', 2);

INSERT INTO subway\_station  
VALUES (3, ' [Primorskaya](https://en.wikipedia.org/wiki/Primorskaya_(Saint_Petersburg_Metro))', 4, 8, '05:15:00', '00:20:00', 2);

INSERT INTO subway\_station  
VALUES (4, ' [Spasskaya](https://en.wikipedia.org/wiki/Spasskaya_(Saint_Petersburg_Metro))', 6, 4, '06:05:00', '00:40:00', 1);

INSERT INTO subway\_station  
VALUES (5, ' [Komendantskiy Prospekt](https://en.wikipedia.org/wiki/Komendantsky_Prospekt_(Saint_Petersburg_Metro))', 3, 6, '05:18:00', '00:39:00', 1);

INSERT INTO train  
VALUES (1, 3482, 210, 1);

INSERT INTO train  
VALUES (2, 3457, 180, 1);

INSERT INTO train  
VALUES (3, 1324, 278, 2);

INSERT INTO train  
VALUES (4, 5768, 240, 2);

INSERT INTO train  
VALUES (5, 3454, 245, 3);

INSERT INTO train  
VALUES (6, 3482, 237, 3);

INSERT INTO train  
VALUES (7, 1324, 224, 4);

INSERT INTO train  
VALUES (8, 1324, 216, 5);

INSERT INTO department  
VALUES ('134 22nd Avenue S', 1, 'Mechanic', 3);

INSERT INTO department  
VALUES ('135 22nd Avenue S', 1, 'Kacca', 3);

INSERT INTO department  
VALUES ('136 22nd Avenue S', 1, 'Security', 4);

INSERT INTO department  
VALUES ('25 86th Avenue N', 2, ' Mechanic', 2);

INSERT INTO department  
VALUES ('24 86th Avenue N', 2, 'Kacca', 3);

INSERT INTO department  
VALUES ('23 86th Avenue N', 2, 'Security', 2);

INSERT INTO department  
VALUES ('45 Lake Avenue SE', 3, ' Mechanic', 3);

INSERT INTO department  
VALUES ('43 Lake Avenue SE', 3, 'Kacca', 3);

INSERT INTO department  
VALUES ('44 Lake Avenue SE', 3, 'Security', 4);

INSERT INTO department  
VALUES ('12 Whitney Road', 4, ' Mechanic', 1);

INSERT INTO department  
VALUES ('11 Whitney Road', 4, 'Kacca', 2);

INSERT INTO department  
VALUES ('10 Whitney Road', 4, 'Security', 1);

INSERT INTO department  
VALUES ('56 Nursery Road', 5, ' Mechanic', 2);

INSERT INTO department  
VALUES ('57 Nursery Road', 5, 'Kacca', 2);

INSERT INTO department  
VALUES ('55 Nursery Road', 5, 'Security', 1);

INSERT INTO position  
VALUES (1,'worker', 'under 40 years old', 20000, 50);

INSERT INTO position  
VALUES (6,'manager', '.', 30000, 5);

INSERT INTO manager  
VALUES (1,' [Marchelle](http://listofrandomnames.com/firstname/Marchelle)', '134 22nd Avenue S');

INSERT INTO manager  
VALUES (2,' [Calandra](http://listofrandomnames.com/firstname/Calandra)', '25 86th Avenue N');

INSERT INTO manager  
VALUES (3,' [Ryann](http://listofrandomnames.com/firstname/Ryann)', '45 Lake Avenue SE');

INSERT INTO manager  
VALUES (4,' [Iris](http://listofrandomnames.com/firstname/Iris)', '12 Whitney Road');

INSERT INTO manager  
VALUES (5,' [Todd](http://listofrandomnames.com/firstname/Todd)', '55 Nursery Road');

INSERT INTO manager  
VALUES (0,'.', '.');

INSERT INTO employees  
VALUES (1,'Alice', '[Aceuedo](http://listofrandomnames.com/lastname/Aceuedo)', '[Bumgarner](http://listofrandomnames.com/lastname/Bumgarner)', 35, 'w', '134 22nd Avenue S', 1, 1);

INSERT INTO employees  
VALUES (2,' [Jann](http://listofrandomnames.com/firstname/Jann)', ' [Riviera](http://listofrandomnames.com/lastname/Riviera)', ' [Greene](http://listofrandomnames.com/lastname/Greene)', 34, 'w', '135 22nd Avenue S',1, 2);

INSERT INTO employees  
VALUES (6,' [Ernestine](http://listofrandomnames.com/firstname/Ernestine)', '[Damron](http://listofrandomnames.com/lastname/Damron)', '[Denbow](http://listofrandomnames.com/lastname/Denbow)', 35, 'w','24 86th Avenue N',1, 3);

INSERT INTO employees  
VALUES (7,' [Johnie](http://listofrandomnames.com/firstname/Johnie)', '[Collman](http://listofrandomnames.com/lastname/Collman)', '[Cornish](http://listofrandomnames.com/lastname/Cornish)', 35, 'm', '43 Lake Avenue SE',1,4);

INSERT INTO employees  
VALUES (8,' [Shemeka](http://listofrandomnames.com/firstname/Shemeka)', '[[Thurber](http://listofrandomnames.com/lastname/Thurber)](http://listofrandomnames.com/lastname/Aceuedo)', '[Tinker](http://listofrandomnames.com/lastname/Tinker)', 35, 'w','45 Lake Avenue SE',1,5);

INSERT INTO employees  
VALUES (9,' [Omar](http://listofrandomnames.com/firstname/Omar)', '[Aceuedo](http://listofrandomnames.com/lastname/Aceuedo)', '[Chesley](http://listofrandomnames.com/lastname/Chesley)', 35, 'm', '44 Lake Avenue SE',1, 2);

INSERT INTO employees  
VALUES (11,' [Marchelle](http://listofrandomnames.com/firstname/Marchelle)', '[Ritchey](http://listofrandomnames.com/lastname/Ritchey)', '[Solley](http://listofrandomnames.com/lastname/Solley)', 35, 'w', '134 22nd Avenue S',2,0);

INSERT INTO employees  
VALUES (12,' [Calandra](http://listofrandomnames.com/firstname/Calandra)', '[Rexrode](http://listofrandomnames.com/lastname/Rexrode)', '[Bumgarner](http://listofrandomnames.com/lastname/Bumgarner)', 35, 'w', '25 86th Avenue N',2,0);

INSERT INTO employees  
VALUES (13,' [Ryann](http://listofrandomnames.com/firstname/Ryann)', ' [Solley](http://listofrandomnames.com/lastname/Solley)', '[Bumgarner](http://listofrandomnames.com/lastname/Bumgarner)', 35, 'm', '45 Lake Avenue SE',2,0);

INSERT INTO employees  
VALUES (14,' [Iris](http://listofrandomnames.com/firstname/Iris)', '[Wain](http://listofrandomnames.com/lastname/Wain)', '[Damron](http://listofrandomnames.com/lastname/Damron)', 35, 'w', '12 Whitney Road',2,0);

INSERT INTO employees  
VALUES (15,' [Todd](http://listofrandomnames.com/firstname/Todd)', '[Aceuedo](http://listofrandomnames.com/lastname/Aceuedo)', '[Bumgarner](http://listofrandomnames.com/lastname/Bumgarner)', 35, 'm', '55 Nursery Road',2, 0);

//Index

studs=> create index employees\_index on employees(Employee\_ID);

studs=> create index Subway\_Station\_index on Subway\_Station(Station\_ID);

studs=> create index Trip\_index on Trip(Trip\_ID);

studs=> create index Train\_index on Train(Train\_ID);

/Trigger And Function

CREATE TABLE Employees\_Change(

Employee\_Change\_ID INT NOT NULL PRIMARY KEY,

Employee\_ID INT NOT NULL,

Lname VARCHAR(45) NOT NULL,

Change\_On TIMESTAMP NOT NULL

CREATE FUNCTION log\_last\_name\_changes()

RETURNS trigger AS

$LOL$

BEGIN

IF NEW.Lname <> OLD.Lname THEN

INSERT INTO Employees\_Change(Employee\_ID,Lname,Change\_On)

VALUES(OLD. Employee\_ID,OLD.Lname, now());

END IF;

RETURN NEW;

END;

$LOL$ LANGUAGE plpgsql;

CREATE TRIGGER last\_name\_changes

BEFORE UPDATE

ON employees

FOR EACH ROW

EXECUTE PROCEDURE log\_last\_name\_changes();