**4) Alter table**

**alter** **table** transaction\_type

**drop** **column** amount\_of\_transaction;

**alter** **table** transactions

**add** **column** amount\_of\_transaction int;

**alter** **table** position

**add** **unique** (name);

**alter** **table** account

**alter** **column** phone\_number type varchar(30);

**alter** **table** account

**add** **unique** (pin);

**5) Position**

**insert** **into** Position (position\_id, name, salary) **values** (1, 'Financial Analyst', '7000');

**insert** **into** Position (position\_id, name, salary) **values** (2, 'Relationship Manager', '6500');

**insert** **into** Position (position\_id, name, salary) **values** (3, 'Accountant', '5500');

**insert** **into** Position (position\_id, name, salary) **values** (4, 'Auditor', '5800');

**insert** **into** Position (position\_id, name, salary) **values** (5, 'Branch Manager', '4800');

**insert** **into** Position (position\_id, name, salary) **values** (6, 'Loan Officer', '5300');

**insert** **into** Position (position\_id, name, salary) **values** (7, 'Collector', '3300');

**insert** **into** Position (position\_id, name, salary) **values** (8, 'Mortgage consultant', '4500');

**insert** **into** Position (position\_id, name, salary) **values** (9, 'Data Processing Officer', '3800');

**insert** **into** Position (position\_id, name, salary) **values** (10, 'Financial advisor', '4700');

**insert** **into** Position (position\_id, name, salary) **values** (11, 'Bank teller', '4000');

**5) Work\_experience**

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (1, '10/05/2019', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (2, '04/03/2016', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (3, '15/12/2013', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (4, '08/02/2016', '12/03/2017');

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (5, '01/09/2013', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (6, '17/07/2014', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (7, '18/05/2015', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (8, '24/10/2014', '24/12/2017');

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (9, '15/09/2017', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (10, '29/06/2011', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (11, '06/02/2013', '14/12/2015');

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (12, '08/08/2015', '06/01/2020');

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (13, '21/12/2011', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (14, '26/11/2013', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (15, '16/03/2017', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (16, '27/10/2011', '01/09/2019');

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (17, '24/12/2014', **null**);

**insert** **into** Work\_experience (id, hire\_date, quit\_date) **values** (18, '20/10/2012', **null**);

**5) Employees**

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (10, 'Caria', 'Beaton', 'cbeaton0@intel.com', 4, 1);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (11, 'Lorena', 'Bellwood', 'lbellwood1@geocities.com', 2, 2);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (12, 'Anders', 'Glaze', 'aglaze2@themeforest.net', 3, 3);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (13, 'Harrietta', 'Stenton', 'hstenton3@ovh.net', 2, 4);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (14, 'Sula', 'Tinton', 'stinton4@baidu.com', 1, 5);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (15, 'Wittie', 'Ashfull', 'washfull5@nymag.com', 6, 6);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (16, 'Vida', 'Kahen', 'vkahen6@rediff.com', 7, 7);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (17, 'Lucretia', 'Treske', 'ltreske7@hostgator.com', 9, 8);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (18, 'Kit', 'Marskell', 'kmarskell8@digg.com', 8, 9);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (19, 'Emmy', 'Clardge', 'eclardge9@scribd.com', 10, 10);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (20, 'Christie', 'Rainsbury', 'crainsburya@hexun.com', 5, 11);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (21, 'Vanya', 'Paulitschke', 'vpaulitschkeb@china.com.cn', 4, 12);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (22, 'Levi', 'Snoden', 'lsnodenc@sciencedirect.com', 3, 13);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (23, 'Jemimah', 'Luton', 'jlutond@w3.org', 6, 14);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (24, 'Jolyn', 'Malcher', 'jmalchere@tamu.edu', 5, 15);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (25, 'Konstance', 'Sorrill', 'ksorrillf@wufoo.com', 3, 16);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (26, 'Haley', 'Holdall', 'hholdallg@theglobeandmail.com', 2, 17);

**insert** **into** Employees (employee\_id, first\_name, last\_name, address, position\_id, working\_time\_id) **values** (27, 'Andrew', 'James', 'andjam@gmail.com', 3, 18);

**5) Transaction\_type**

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (101, 'ATM');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (102, 'Charge');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (103, 'Online');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (104, 'Deposit');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (105, 'Transfer');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (106, 'Withdrawal');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (107, 'POS');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (108, 'Check');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (109, 'Deposit income');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (110, 'Loan loss');

**insert** **into** Transaction\_type (transaction\_type\_id, description) **values** (111, 'Retirement transfer');

**5) Clients**

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (1, 'Welbie', 'Kidwell', '262 Washington Lane', 'wkidwell0@ustream.tv', '3800');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (2, 'Uriah', 'Bridal', '4174 8th Plaza', 'ubridal1@nba.com', '5200');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (3, 'Cris', 'Slayton', '99821 Eastwood Place', 'cslayton2@twitter.com', '3500');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (4, 'Kingsly', 'Lathom', '721 Cottonwood Center', 'klathom3@amazonaws.com', '4900');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (5, 'Mabel', 'Frammingham', '02838 Kensington Plaza', 'mframmingham4@github.com', '4700');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (6, 'Wally', 'Tredger', '46 Commercial Court', 'wtredger5@cloudflare.com', '4300');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (7, 'Priscilla', 'Ricciardelli', '78984 Petterle Trail', 'pricciardelli6@sakura.ne.jp', '3100');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (8, 'Janith', 'Madine', '71 Nobel Road', 'jmadine7@nydailynews.com', '3400');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (9, 'Melli', 'Weed', '0321 Briar Crest Point', 'mweed8@google.cn', '5200');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (10, 'Jeromy', 'Calvert', '7363 Northfield Point', 'jcalvert9@cnbc.com', '4300');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (11, 'Dilan', 'O''Glassane', '5465 Autumn Leaf Road', 'doglassanea@tinyurl.com', '4200');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (12, 'Guthry', 'Baggett', '70162 Harper Alley', 'gbaggettb@comsenz.com', '5000');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (13, 'Angel', 'Muro', '644 Roth Street', 'amuroc@wufoo.com', '3600');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (14, 'Clari', 'Dallemore', '22 Atwood Hill', 'cdallemored@prweb.com', '3400');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (15, 'Jarad', 'Clewlowe', '4 Talisman Trail', 'jclewlowee@liveinternet.ru', '4500');

**insert** **into** Clients (client\_id, first\_name, last\_name, town, address, income) **values** (16, 'Joseph', 'Antony', '29 Yellowsnow Road', 'jsphantny@online.net', '4100');

**5) Loans**

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (1, 'Home remodeling', '05/11/2017', '08/12/2020', '3800', 1);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (2, 'Vehicle financing', '22/06/2019', '05/05/2022', '2000', 2);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (3, 'Wedding expenses', '06/11/2018', '04/08/2024', '3400', 5);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (4, 'Vacation costs', '14/09/2015', '31/08/2023', '3800', 4);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (5, 'Emergency expenses', '31/07/2019', '15/02/2022', '2900', 2);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (6, 'Moving costs', '03/04/2015', '14/03/2022', '4100', 3);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (7, 'Vehicle financing', '26/04/2016', '12/03/2020', '3900', 7);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (8, 'Home remodeling', '23/04/2017', '11/04/2021', '3900', 8);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (9, 'Emergency expenses', '25/08/2017', '24/02/2020', '3100', 6);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (10, 'Monthly costs', '18/06/2017', '12/01/2021', '2000', 10);

**insert** **into** Loans (loan\_id, description, start\_time, end\_time, total\_amount, client\_id) **values** (11, 'Moving costs', '08/01/2015', '01/12/2019', '2800', 8);

**5) Account**

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (1, '+46 (728) 687-1338', 3013, '11000', 1);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (2, '+86 (258) 589-4346', 3999, '5400', 2);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (3, '+358 (933) 264-9581', 5271, '19000', 3);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (4, '+358 (217) 829-0876', 2151, '11000', 4);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (5, '+60 (540) 263-6705', 4705, '17500', 5);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (6, '+62 (660) 708-1933', 5487, '14200', 6);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (7, '+86 (398) 712-5830', 7997, '8700', 7);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (8, '+63 (727) 693-9363', 6143, '8400', 8);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (9, '+86 (585) 854-5889', 7291, '4400', 9);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (10, '+230 (281) 689-7311', 8603, '13900', 10);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (11, '+420 (796) 173-5054', 1720, '9300', 11);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (12, '+976 (508) 275-2907', 5247, '8500', 12);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (13, '+86 (259) 547-1809', 2455, '14400', 13);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (14, '+7 (619) 345-3471', 6711, '6000', 14);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (15, '+7 (229) 524-9006', 9657, '9700', 15);

**insert** **into** Account (account\_id, phone\_number, pin, balance, client\_id) **values** (16, '+86 (781) 504-1208', 6972, '9700', 16);

**5) Transactions**

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (1, '18/10/2017', 101, 11, 3090);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (2, '24/8/2020', 106, 3, 6800);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (3, '15/11/2019', 102, 13, 7268);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (4, '1/10/2015', 105, 8, 4527);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (5, '4/10/2020', 105, 7, 1683);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (6, '24/11/2017', 106, 2, 300);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (7, '1/9/2015', 105, 6, 2205);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (8, '6/10/2017', 102, 9, 7998);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (9, '18/7/2017', 109, 15, 1703);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (10, '30/6/2018', 110, 3, 6090);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (11, '24/3/2019', 110, 1, 5717);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (12, '3/1/2020', 101, 8, 1069);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (13, '10/1/2015', 103, 11, 313);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (14, '26/11/2015', 101, 10, 3907);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (15, '30/1/2015', 107, 8, 2222);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (16, '24/4/2016', 107, 8, 2158);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (17, '11/5/2015', 103, 7, 282);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (18, '31/12/2018', 103, 6, 7658);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (19, '15/6/2015', 103, 4, 6563);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (20, '26/9/2016', 110, 1, 2268);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (21, '27/1/2019', 110, 11, 613);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (22, '15/2/2018', 101, 12, 3132);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (23, '3/7/2016', 108, 2, 3790);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (24, '21/8/2015', 109, 9, 6443);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (25, '14/5/2016', 102, 10, 7461);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (26, '9/3/2018', 104, 3, 6204);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (27, '4/5/2017', 101, 5, 1395);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (28, '20/1/2017', 108, 1, 5507);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (29, '23/10/2018', 103, 14, 1355);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (30, '13/6/2019', 110, 13, 1960);

**insert** **into** Transactions (transaction\_id, transaction\_date, transaction\_type\_id, account\_id, amount\_of\_transaction) **values** (31, '6/11/2015', 102, 2, 530);

**5) Deposits**

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (1, 7750, 0.41, 1);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (2, 2700, 0.50, 2);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (3, 8600, 0.31, 3);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (4, 8180, 0.32, 4);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (5, 5400, 0.49, 5);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (6, 4770, 0.44, 6);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (7, 8600, 0.31, 7);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (8, 5300, 0.49, 8);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (9, 6300, 0.43, 9);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (10, 6000, 0.43, 10);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (11, 8000, 0.32, 11);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (12, 6200, 0.43, 12);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (13, 4000, 0.48, 13);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (14, 8800, 0.36, 14);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (15, 6800, 0.45, 15);

**insert** **into** Deposits (deposit\_id, balance, interest, client\_id) **values** (16, 4600, 0.44, 10);

**5) Deposit\_details**

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (1, 'Home remodeling', '04/07/2017', 90, 10, 1);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (2, 'Vehicle financing', '11/03/2015', 185, 12, 5);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (3, 'Vacation costs', '21/02/2018', 260, 13, 3);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (4, 'Vehicle financing', '20/06/2018', 190, 14, 8);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (5, 'Home remodeling', '24/09/2016', 100, 15, 2);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (6, 'Home remodeling', '29/12/2016', 150, 16, 6);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (7, 'Vacation costs', '28/07/2018', 200, 17, 7);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (8, 'Vehicle financing', '05/09/2019', 170, 18, 4);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (9, 'Home remodeling', '07/07/2017', 170, 19, 11);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (10, 'Home remodeling', '16/02/2017', 110, 20, 14);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (11, 'Vacation costs', '19/02/2015', 120, 21, 9);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (12, 'Vehicle financing', '06/07/2019', 180, 22, 12);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (13, 'Home remodeling', '04/09/2018', 190, 23, 13);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (14, 'Home remodeling', '07/09/2019', 130, 24, 15);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (15, 'Vehicle financing', '10/07/2015', 145, 25, 10);

**insert** **into** Deposit\_details (id, description, deposit\_date, amount\_of\_deposit, employee\_id, deposit\_id) **values** (16, 'Vehicle financing', '04/05/2013', 110, 20, 16);

**5) Update**

**update** position **set** salary=3500 **where** name='Collector';

**update** work\_experience **set** quit\_date='02/08/2020' **where** hire\_date='10/05/2019';

**update** employees **set** address='hstenton3@gmail.com' **where** employee\_id=13;

**update** transaction\_type **set** description='Cash/Debitcard purchase' **where** transaction\_type\_id=107;

**update** clients **set** income=4300 **where** last\_name='Frammingham';

**update** loans **set** end\_time='08/02/2020' **where** loan\_id=6;

**update** account **set** pin=9451 **where** client\_id=6;

**update** transactions **set** transaction\_type\_id=104 **where** amount\_of\_transaction=6090;

**update** deposits **set** balance=6000 **where** deposit\_id=9;

**update** deposit\_details **set** description='Vacation costs' **where** id=14;

**5) Delete**

**delete** **from** position **where** name='Bank Teller';

**delete** **from** work\_experience **where** hire\_date='20/10/2012';

**delete** **from** employees **where** employee\_id=27;

**delete** **from** transaction\_type **where** transaction\_type\_id=111;

**delete** **from** clients **where** client\_id=16;

**delete** **from** loans **where** total\_amount=2800;

**delete** **from** account **where** phone\_number='+86 (781) 504-1208';

**delete** **from** transactions **where** transaction\_id=31;

**delete** **from** deposits **where** deposit\_id=16;

**delete** **from** deposit\_details **where** id=16;

**6) Queries**

**select** first\_name, last\_name

**from** employees

**where** position\_id **in** (**select** position\_id **from** position **where** salary > 5500);

**select** clients.first\_name, loans.total\_amount **as** loan, deposits.balance **as** deposit, account.balance **as** account\_balance

**from** clients

**inner** **join** loans **on** clients.client\_id=loans.client\_id

**inner** **join** deposits **on** clients.client\_id=deposits.client\_id

**inner** **join** account **on** clients.client\_id=account.client\_id;

**select** clients.first\_name, clients.last\_name, loans.total\_amount

**from** clients

**left** **join** loans **on** clients.client\_id=loans.client\_id

**order** **by** clients.client\_id;

**select** \*

**from** position

**where** salary **between** 3000 **and** 5000

**order** **by** position\_id;

**select** position.name, **count**(**distinct** employee\_id) **as** employee\_number

**from** employees

**inner** **join** position

**on** employees.position\_id=position.position\_id

**group** **by** **position**.name

**order** **by** employee\_number;

**select** **min**(salary) **as** min\_salary

**from** **position**

**inner** **join** employees **on** **position**.position\_id=employees.position\_id

**inner** **join** work\_experience **on** work\_experience.id=employees.working\_time\_id

**where** quit\_date **is** **null**;

**select** **max**(salary) **as** max\_salary

**from** **position**

**inner** **join** employees **on** **position**.position\_id=employees.position\_id

**inner** **join** work\_experience **on** work\_experience.id=employees.working\_time\_id

**where** hire\_date > '01/01/2017';

**select** **avg**(salary)

**from** **position**

**inner** **join** employees **on** **position**.position\_id=employees.position\_id

**inner** **join** work\_experience **on** work\_experience.id=employees.working\_time\_id

**where** **extract** (**year** **from** **current\_date**) - **extract** (**year** **from** quit\_date) > 3;

**select** clients.first\_name, deposit\_details.amount\_of\_deposit, deposits.interest, loans.total\_amount

**from** clients

**full** **join** loans **on** clients.client\_id=loans.client\_id

**inner** **join** deposits **on** deposits.client\_id=clients.client\_id

**inner** **join** deposit\_details **on** deposits.deposit\_id=deposit\_details.deposit\_id

**order** **by** clients.client\_id;

**select** clients.first\_name, **sum**(amount\_of\_transaction) **as** total\_transactions

**from** clients

**inner** **join** account **on** clients.client\_id=account.client\_id

**inner** **join** transactions **on** transactions.account\_id=account.account\_id

**group** **by** clients.client\_id

**order** **by** **sum**(amount\_of\_transaction);

**select** **distinct** employees.first\_name, **position**.name

**from** employees

**inner** **join** **position** **on** **position**.position\_id=employees.position\_id

**where** employees.first\_name **like** 'J\_\_\_\_\_%';

**select** **length**(phone\_number)

**from** account

**inner** **join** clients **on** account.client\_id=clients.client\_id

**where** clients.income = 5000;

**7) Subqueries**

**select** first\_name, last\_name **from** clients

**where** income = (**select** **max** (income)

**from** clients)

**select** first\_name, last\_name

**from** clients

**where** client\_id = (**select** client\_id

**from** account

**where** account\_id = (**select** **min**(account\_id)

**from** account))

**select** name

**from** position

**where** salary > (**select avg**(salary)

**from** position)

**select** description, start\_time, end\_time, total\_amount

**from** loans

**where** (loan\_id, total\_amount) **in** (**select** loan\_id, **min**(total\_amount)

**from** loans

group by loan\_id)

**select** \*

**from** transactions

**where** amount\_of\_transaction < (**select avg**(amount\_of\_transaction)

**from** transactions)