



Master SQL for Data Science

▼ Class	Data Science
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🔗 Materials	6.1 mock_data.sql.sql
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▼ Type	Course

| Database is collection of tables and Tables contains the actual data

Mock Data Setup

```
create table departments (  
    department varchar(100),  
    division varchar(100),  
    primary key (department)  
);  
  
insert into departments values ('Clothing','Home');  
insert into departments values ('Grocery','Home');  
insert into departments values ('Decor','Home');  
insert into departments values ('Furniture','Home');  
insert into departments values ('Computers','Electronics');  
insert into departments values ('Device Repair','Electronics');  
insert into departments values ('Phones & Tablets','Electronics');  
insert into departments values ('Garden','Outdoors');  
insert into departments values ('Camping & Fishing','Outdoors');  
insert into departments values ('Sports','Outdoors');  
insert into departments values ('Children Clothing','Kids');  
insert into departments values ('Toys','Kids');  
insert into departments values ('Vitamins','Health');  
insert into departments values ('Pharmacy','Health');  
insert into departments values ('First Aid','Health');  
insert into departments values ('Automotive','Hardware');  
insert into departments values ('Tools','Hardware');  
insert into departments values ('Jewelry','Fashion');  
insert into departments values ('Beauty','Fashion');  
insert into departments values ('Cosmetics','Fashion');  
insert into departments values ('Books','Entertainment');  
insert into departments values ('Games','Entertainment');  
insert into departments values ('Music','Entertainment');  
insert into departments values ('Movies','Entertainment');  
  
create table regions (  
    region varchar(100),  
    primary key (region)
```

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        region_id int,
        region varchar(20),
        country varchar(20),
        primary key (region_id)
    );

insert into regions values (1, 'Southwest', 'United States');
insert into regions values (2, 'Northeast', 'United States');
insert into regions values (3, 'Northwest', 'United States');
insert into regions values (4, 'Central', 'Asia');
insert into regions values (5, 'East Asia', 'Asia');
insert into regions values (6, 'Quebec', 'Canada');
insert into regions values (7, 'Nova Scotia', 'Canada');

create table employees (
    employee_id INT,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    email VARCHAR(50),
    hire_date DATE,
    department VARCHAR(17),
    gender VARCHAR(1),
    salary INT,
    region_id INT,
    primary key (employee_id)
);

insert into employees values (1, 'Berrie', 'Manueau', 'bmanueau@dion.ne.jp', '2006-04-20', 'Sports', 'F', 154864, 4);
insert into employees values (2, 'Aeriell', 'McNee', 'amcnee1@google.es', '2009-01-26', 'Tools', 'F', 56752, 3);
insert into employees values (3, 'Sydney', 'Symonds', 'ssymonds2@hhs.gov', '2010-05-17', 'Clothing', 'F', 95313, 4);
insert into employees values (4, 'Avrom', 'Rowantree', null, '2014-08-02', 'Phones & Tablets', 'M', 119674, 7);
insert into employees values (5, 'Feliks', 'Morffew', 'fmorffew4@a8.net', '2003-01-14', 'Computers', 'M', 55307, 5);
insert into employees values (6, 'Bethena', 'Trow', 'btrow5@technorati.com', '2003-06-08', 'Sports', 'F', 134501, 3);
insert into employees values (7, 'Ardeen', 'Curwood', 'acurwood6@und1.de', '2006-02-19', 'Clothing', 'F', 28995, 7);
insert into employees values (8, 'Seline', 'Dubber', 'sdubber7@t-online.de', '2012-05-28', 'Phones & Tablets', 'F', 101066, 3);
insert into employees values (9, 'Dayle', 'Trail', 'dtrail8@tamu.edu', '2003-03-01', 'First Aid', 'F', 82753, 1);
insert into employees values (10, 'Redford', 'Roberti', null, '2008-07-21', 'Clothing', 'M', 72225, 7);
insert into employees values (11, 'Nickey', 'Pointon', 'npointona@vistaprint.com', '2006-12-30', 'Jewelry', 'M', 126333, 7);
insert into employees values (12, 'Leonora', 'Casaroli', 'lcasarolib@plala.or.jp', '2013-07-22', 'Beauty', 'F', 99504, 3);
insert into employees values (13, 'Anetta', 'Arnao', null, '2009-05-23', 'Games', 'F', 38162, 1);
insert into employees values (14, 'Jodi', 'Hook', 'jhookd@booking.com', '2003-10-16', 'Tools', 'F', 126588, 2);
insert into employees values (15, 'Alyson', 'Franzonello', null, '2004-01-01', 'Furniture', 'F', 61256, 6);
insert into employees values (16, 'Merell', 'Yakovliv', 'myakovlivf@ucsd.edu', '2008-08-16', 'Movies', 'M', 78141, 7);
insert into employees values (17, 'Annora', 'Bendelow', 'abendelowg@google.com.hk', '2009-06-12', 'Toys', 'F', 75283, 5);
insert into employees values (18, 'Ronica', 'Armfield', null, '2012-09-14', 'Toys', 'F', 114983, 5);
insert into employees values (19, 'Bernardine', 'Hendricks', 'bhendricksi@privacy.gov.au', '2006-02-04', 'Device Repair', 'F', 158268, 3);
insert into employees values (20, 'Jessey', 'Colum', 'jcolumj@pen.io', '2013-07-08', 'Computer

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s', 'M', 77173, 7);
insert into employees values (21, 'Bernardo', 'Davage', null, '2013-07-11', 'Clothing', 'M', 12
4949, 6);
insert into employees values (22, 'Cayla', 'Duffer', null, '2007-02-01', 'Grocery', 'F', 78589,
3);
insert into employees values (23, 'Vanda', 'Marwick', 'vmarwickm@upenn.edu', '2014-02-06', 'Aut
omotive', 'F', 103570, 4);
insert into employees values (24, 'Corabel', 'Syversen', 'csyversenn@aboutads.info', '2016-03-0
3', 'Pharmacy', 'F', 91323, 3);
insert into employees values (25, 'Zane', 'Breem', 'zbreemo@abc.net.au', '2012-07-30', 'Cosmeti
cs', 'M', 56688, 6);
insert into employees values (26, 'Frasquito', 'Cawson', null, '2006-06-24', 'Movies', 'M', 788
81, 1);
insert into employees values (27, 'Niles', 'Chawkey', 'nchawkeyq@flavors.me', '2013-09-22',
'Movies', 'M', 156303, 3);
insert into employees values (28, 'Emanuele', 'Sandcraft', 'esandcrafr@toplist.cz', '2015-01-0
1', 'Garden', 'M', 70827, 2);
insert into employees values (29, 'Cortie', 'Ambrosini', 'cambrosinis@microsoft.com', '2014-05-
03', 'Games', 'M', 133847, 4);
insert into employees values (30, 'Benn', 'Dudley', 'bdudleyt@dailymail.co.uk', '2012-08-24',
'Beauty', 'M', 67800, 7);
insert into employees values (31, 'Cleve', 'Conti', 'ccontiu@noaa.gov', '2008-02-27', 'Garden',
'M', 91608, 5);
insert into employees values (32, 'Aldon', 'Paddison', 'apaddisonv@lulu.com', '2013-06-30', 'Fi
rst Aid', 'M', 109592, 5);
insert into employees values (33, 'Ernestine', 'Sloley', 'esloleyw@rakuten.co.jp', '2011-06-2
7', 'Device Repair', 'F', 146549, 5);
insert into employees values (34, 'Lucy', 'Olifaunt', 'lolifauntx@dailymotion.com', '2005-02-0
7', 'Sports', 'F', 165660, 7);
insert into employees values (35, 'Olenolin', 'Blundan', null, '2004-09-29', 'Beauty', 'M', 137
691, 3);
insert into employees values (36, 'Anatollo', 'Doyle', null, '2016-04-08', 'Computers', 'M', 98
207, 1);
insert into employees values (37, 'Wilfrid', 'Sainer', 'wsainer10@gizmodo.com', '2015-09-30',
'Movies', 'M', 147235, 3);
insert into employees values (38, 'Edna', 'Erwin', null, '2003-04-09', 'Children Clothing',
'F', 91397, 5);
insert into employees values (39, 'Mikael', 'Kybbye', 'mkybbye12@si.edu', '2010-12-07', 'Vitami
ns', 'M', 52642, 1);
insert into employees values (40, 'Modestine', 'Proctor', 'mproctor13@digg.com', '2015-05-04',
'Tools', 'F', 81889, 7);
insert into employees values (41, 'Jania', 'Gresly', 'jgresly14@ted.com', '2010-09-08', 'Furnit
ure', 'F', 97812, 6);
insert into employees values (42, 'Penelopa', 'Danieli', 'pdanieli15@microsoft.com', '2014-06-2
3', 'Toys', 'F', 85218, 1);
insert into employees values (43, 'Maurise', 'Bengefield', 'mbengefield16@sohu.com', '2005-07-0
8', 'Pharmacy', 'F', 63332, 2);
insert into employees values (44, 'Moise', 'Turpey', 'mturpey17@mac.com', '2008-04-15', 'Device
Repair', 'M', 33781, 1);
insert into employees values (45, 'Giacopo', 'Mariner', 'gmariner18@noaa.gov', '2005-01-31', 'G
rocery', 'M', 130445, 7);
insert into employees values (46, 'Lanny', 'Comolli', 'lcomolli19@posterous.com', '2014-06-19',
'Phones & Tablets', 'F', 34250, 6);
insert into employees values (47, 'Byrann', 'Jaukovic', 'bjaukovic1a@networkadvertising.org',
'2011-11-13', 'Books', 'M', 121054, 7);
insert into employees values (48, 'Birgitta', 'Stanbrooke', 'bstanbrooke1b@netvibes.com', '2016
-09-12', 'Clothing', 'F', 77259, 1);
insert into employees values (49, 'Portie', 'Ilden', 'pilden1c@usa.gov', '2006-01-20', 'Device
Repair', 'M', 69190, 7);
insert into employees values (50, 'Modesty', 'Blagburn', 'mblagburn1d@studiopress.com', '2008-0
3-16', 'Beauty', 'F', 130580, 1);
insert into employees values (51, 'Norine', 'Steinham', null, '2008-08-22', 'Sports', 'F', 6648
8, 2);
insert into employees values (52, 'Charla', 'Adamowicz', 'cadamowicz1f@tiny.cc', '2011-03-16',
'Music', 'F', 162206, 2);
insert into employees values (53, 'Alphonse', 'Shedd', 'ashedd1g@illinois.edu', '2014-08-17',
'Cosmetics', 'M', 33272, 4);

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insert into employees values (54, 'Verney', 'McQuirk', 'vmcquirk1h@ning.com', '2012-06-17', 'Clothing', 'M', 97156, 2);
insert into employees values (55, 'Norina', 'Yea', 'nyea1i@cnet.com', '2005-06-14', 'Children Clothing', 'F', 45959, 1);
insert into employees values (56, 'Wilek', 'Cossor', 'wcossor1j@merriam-webster.com', '2014-09-17', 'Children Clothing', 'M', 91859, 4);
insert into employees values (57, 'Reuben', 'Hallard', null, '2009-03-14', 'First Aid', 'M', 34572, 5);
insert into employees values (58, 'King', 'Sangra', null, '2012-01-08', 'Grocery', 'M', 53499, 6);
insert into employees values (59, 'Hilario', 'Reily', 'hreily1m@google.co.jp', '2012-03-18', 'Phones & Tablets', 'M', 83332, 5);
insert into employees values (60, 'Orland', 'Backhouse', 'obackhouse1n@yahoo.co.jp', '2007-07-12', 'Beauty', 'M', 162845, 6);
insert into employees values (61, 'Bobby', 'Keppie', null, '2010-10-22', 'Computers', 'M', 123722, 3);
insert into employees values (62, 'Lek', 'Camplin', null, '2007-07-16', 'Children Clothing', 'M', 124190, 6);
insert into employees values (63, 'Fanya', 'Naish', 'fnaish1q@jalum.net', '2014-02-24', 'Tools', 'F', 140681, 3);
insert into employees values (64, 'Ody', 'Dunks', 'odunks1r@theguardian.com', '2006-10-13', 'Toys', 'M', 92003, 1);
insert into employees values (65, 'Cindi', 'Clyburn', 'cclyburn1s@wikimedia.org', '2007-07-07', 'Games', 'F', 70527, 2);
insert into employees values (66, 'Deb', 'Scarratt', null, '2010-12-24', 'Jewelry', 'F', 112297, 3);
insert into employees values (67, 'Wain', 'Betonina', 'wbetonina1u@princeton.edu', '2005-07-23', 'Tools', 'M', 26578, 3);
insert into employees values (68, 'Wilhelmina', 'Martignon', null, '2013-04-11', 'Jewelry', 'F', 150818, 3);
insert into employees values (69, 'Ivar', 'Burwin', 'iburwin1w@hostgator.com', '2008-07-04', 'Toys', 'M', 67447, 4);
insert into employees values (70, 'Geoff', 'Burrell', 'gburrell1x@paginegialle.it', '2016-05-10', 'Clothing', 'M', 88652, 1);
insert into employees values (71, 'Tobi', 'Lamasna', 'tlamasna1y@gmpg.org', '2012-04-10', 'Vitamins', 'F', 68925, 4);
insert into employees values (72, 'Zebulon', 'Guppey', 'zguppey1z@virginia.edu', '2004-11-30', 'Toys', 'M', 89221, 7);
insert into employees values (73, 'Melonie', 'Tredger', 'mtredger20@pcworld.com', '2006-03-26', 'Computers', 'F', 63128, 3);
insert into employees values (74, 'Margy', 'Bess', 'mbess21@google.fr', '2012-11-10', 'Computer', 'F', 144141, 7);
insert into employees values (75, 'Fiorenze', 'Woodyer', null, '2003-02-17', 'Phones & Tablets', 'F', 51266, 2);
insert into employees values (76, 'Toby', 'Deek', 'tdeek23@wikimedia.org', '2015-07-10', 'Device Repair', 'F', 111363, 2);
insert into employees values (77, 'Maurice', 'Philbrick', null, '2006-01-08', 'Sports', 'M', 67615, 1);
insert into employees values (78, 'Wendel', 'Olczyk', 'wolczyk25@redcross.org', '2010-01-11', 'Games', 'M', 118392, 4);
insert into employees values (79, 'Rora', 'Brumfitt', 'rbrumfitt26@ucox.ru', '2003-01-12', 'Children Clothing', 'F', 153489, 7);
insert into employees values (80, 'Hester', 'Seakin', 'hseakin27@netlog.com', '2006-11-30', 'Clothing', 'F', 150887, 5);
insert into employees values (81, 'Ivan', 'Hassewell', 'ihassewell28@paginegialle.it', '2004-09-26', 'Device Repair', 'M', 74721, 6);
insert into employees values (82, 'Dani', 'Diter', 'dditer29@huffingtonpost.com', '2006-01-13', 'Camping', 'M', 102516, 2);
insert into employees values (83, 'Elnora', 'Babin', 'ebabin2a@foxnews.com', '2003-02-22', 'First Aid', 'F', 34355, 5);
insert into employees values (84, 'Kippie', 'Petrolli', 'kpetrolli2b@wsj.com', '2008-06-27', 'Clothing', 'M', 128327, 2);
insert into employees values (85, 'Christal', 'Ghest', null, '2006-10-21', 'Pharmacy', 'F', 64957, 5);
insert into employees values (86, 'Doll', 'Blondel', 'dblondel2d@list-manage.com', '2007-03-30', 'Camping', 'F', 136773, 7);
insert into employees values (87, 'Riane', 'Malloch', 'rmalloch2e@reuters.com', '2014-12-17',

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'Tools', 'F', 101577, 3);
insert into employees values (88, 'Brandice', 'Tomovic', 'btomovic2f@histats.com', '2008-06-21', 'Music', 'F', 130031, 2);
insert into employees values (89, 'Claudetta', 'Sappson', 'csappson2g@aboutads.info', '2011-08-24', 'Sports', 'F', 157802, 5);
insert into employees values (90, 'Irita', 'Starie', 'istarie2h@answers.com', '2004-10-15', 'Automotive', 'F', 160783, 1);
insert into employees values (91, 'Riley', 'Yellowlea', 'ryellowlea2i@ibm.com', '2007-03-20', 'Camping', 'M', 166569, 5);
insert into employees values (92, 'Port', 'Dancy', 'pdancy2j@nytimes.com', '2011-06-14', 'Clothing', 'M', 86352, 3);
insert into employees values (93, 'Hallsy', 'Theuss', 'htheuss2k@independent.co.uk', '2010-04-05', 'Computers', 'M', 49565, 3);
insert into employees values (94, 'Cati', 'Keat', 'ckeat2l@nih.gov', '2004-07-17', 'Tools', 'F', 103302, 7);
insert into employees values (95, 'Stevana', 'Norton', 'snorton2m@dion.ne.jp', '2014-02-21', 'Pharmacy', 'F', 111122, 4);
insert into employees values (96, 'Cal', 'Lowre', 'clowre2n@marketwatch.com', '2010-12-30', 'Movies', 'F', 47412, 2);
insert into employees values (97, 'Jilleen', 'Toone', null, '2013-04-20', 'Automotive', 'F', 137393, 3);
insert into employees values (98, 'Natalee', 'Arnal', 'narnal2p@reference.com', '2014-03-16', 'Tools', 'F', 125024, 5);
insert into employees values (99, 'Simeon', 'Scarsbrooke', 'sscarsbrooke2q@ted.com', '2011-04-10', 'Jewelry', 'M', 56976, 2);
insert into employees values (100, 'Sashenka', 'Paris', 'sparis2r@si.edu', '2005-10-01', 'Furniture', 'F', 117137, 2);
insert into employees values (101, 'Ev', 'Wessell', 'ewessell2s@earthlink.net', '2013-06-28', 'Grocery', 'M', 164582, 4);
insert into employees values (102, 'Bryna', 'Tarpoly', 'btarpoly2t@scientificamerican.com', '2010-08-20', 'Movies', 'F', 71440, 7);
insert into employees values (103, 'Gregoire', 'Clementi', 'gclementi2u@privacy.gov.au', '2003-11-04', 'Garden', 'M', 104006, 1);
insert into employees values (104, 'Dulsea', 'Drennan', null, '2014-12-06', 'Computers', 'F', 128255, 7);
insert into employees values (105, 'Butch', 'Calbert', 'bcalbert2w@cbc.ca', '2014-09-04', 'Books', 'M', 70287, 4);
insert into employees values (106, 'Heath', 'MacRedmond', null, '2004-10-22', 'Phones & Tablets', 'M', 156926, 2);
insert into employees values (107, 'Christine', 'Hessing', 'chessing2y@dailymail.co.uk', '2013-11-07', 'Books', 'F', 149864, 5);
insert into employees values (108, 'Dionysus', 'Dumpleton', 'ddumpleton2z@typepad.com', '2009-12-30', 'Movies', 'M', 145973, 5);
insert into employees values (109, 'Sigismund', 'Von Hindenburg', 'svonhindenburg30@seattletimes.com', '2007-01-28', 'Toys', 'M', 125291, 1);
insert into employees values (110, 'Roarke', 'Sully', 'rsully31@army.mil', '2004-10-26', 'Movies', 'M', 86223, 7);
insert into employees values (111, 'Elihu', 'Epp', null, '2012-11-11', 'Pharmacy', 'M', 55779, 6);
insert into employees values (112, 'Holt', 'Sillars', 'hsillars33@illinois.edu', '2012-10-23', 'Books', 'M', 46099, 1);
insert into employees values (113, 'Myrtice', 'Emmens', null, '2011-11-21', 'Movies', 'F', 36919, 6);
insert into employees values (114, 'Johnnie', 'Waight', 'jwaight35@yahoo.com', '2007-11-28', 'Beauty', 'M', 120362, 6);
insert into employees values (115, 'Peyter', 'Jansey', 'pjansey36@linkedin.com', '2005-12-02', 'Children Clothing', 'M', 23348, 4);
insert into employees values (116, 'Kath', 'Mateescu', 'kmateescu37@google.ca', '2016-02-18', 'Device Repair', 'F', 133361, 6);
insert into employees values (117, 'Cornelle', 'Marty', 'cmarty38@newsvine.com', '2015-11-07', 'Books', 'F', 156858, 4);
insert into employees values (118, 'Roxane', 'Raftery', 'rraftery39@arstechnica.com', '2016-08-05', 'Movies', 'F', 43199, 1);
insert into employees values (119, 'Worth', 'Pavey', null, '2007-04-09', 'Tools', 'M', 86252, 5);
insert into employees values (120, 'Elwin', 'Seakin', 'eseakin3b@tmall.com', '2014-07-09', 'First Aid', 'M', 141261, 1);

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insert into employees values (121, 'Collie', 'Morfett', null, '2016-06-17', 'Clothing', 'F', 89
961, 4);
insert into employees values (122, 'Josselyn', 'Cardus', 'jcardus3d@technorati.com', '2010-01-1
9', 'Music', 'F', 162341, 7);
insert into employees values (123, 'Olvan', 'Ladds', null, '2004-04-01', 'Books', 'M', 61102,
3);
insert into employees values (124, 'Remy', 'Sperski', 'rsperski3f@vistaprint.com', '2004-06-1
9', 'Grocery', 'F', 22796, 1);
insert into employees values (125, 'Valera', 'Southway', 'vsouthway3g@timesonline.co.uk', '2010
-05-20', 'Device Repair', 'F', 25114, 6);
insert into employees values (126, 'Roslyn', 'Guiu', 'rguiu3h@com.com', '2003-08-11', 'Automoti
ve', 'F', 157260, 1);
insert into employees values (127, 'Colby', 'Soulsby', 'csoulsby3i@google.co.jp', '2011-06-22',
'Toys', 'M', 104665, 5);
insert into employees values (128, 'Archibald', 'Pavey', null, '2015-04-27', 'Toys', 'M', 5986
0, 1);
insert into employees values (129, 'Roslyn', 'Frape', 'rfrape3k@chronoengine.com', '2004-04-0
7', 'Garden', 'F', 91287, 6);
insert into employees values (130, 'Vincent', 'Gullivent', 'vgullivent3l@wikia.com', '2010-07-
24', 'Camping', 'M', 57696, 6);
insert into employees values (131, 'Hewet', 'Calafate', 'hcalafate3m@webmd.com', '2016-11-24',
'Phones & Tablets', 'M', 113979, 2);
insert into employees values (132, 'Olivie', 'Issett', 'oissett3n@purevolume.com', '2004-05-3
1', 'Movies', 'F', 155316, 4);
insert into employees values (133, 'Ezri', 'Foystone', 'efoystone3o@dagondesign.com', '2010-10-
26', 'Garden', 'M', 87986, 5);
insert into employees values (134, 'Demott', 'Mouton', null, '2007-09-26', 'Cosmetics', 'M', 22
284, 5);
insert into employees values (135, 'Salli', 'Caville', 'scaville3q@miibeian.gov.cn', '2008-10-1
7', 'Furniture', 'F', 29124, 5);
insert into employees values (136, 'Cordie', 'Broadbear', 'cbroadbear3r@eventbrite.com', '2015-
03-02', 'Games', 'M', 124521, 2);
insert into employees values (137, 'Darn', 'Pattisson', 'dpattisson3s@latimes.com', '2013-01-2
3', 'Decor', 'M', 152418, 7);
insert into employees values (138, 'Clemmie', 'Forber', 'cforber3t@fc2.com', '2014-10-17', 'Gar
den', 'F', 53101, 6);
insert into employees values (139, 'Kalie', 'Dowthwaite', 'kdowthwaite3u@technorati.com', '2003
-11-24', 'First Aid', 'F', 132796, 3);
insert into employees values (140, 'Eugenia', 'Scourgie', 'escourgie3v@imdb.com', '2011-06-29',
'Camping', 'F', 26747, 5);
insert into employees values (141, 'Rozamond', 'Malam', 'rmalam3w@indiatimes.com', '2011-10-1
0', 'Phones & Tablets', 'F', 140349, 3);
insert into employees values (142, 'Constantine', 'Torrese', 'ctorrese3x@bloglines.com', '2004-
09-11', 'Device Repair', 'F', 112819, 3);
insert into employees values (143, 'Dasi', 'Kennefick', 'dkennefick3y@apple.com', '2006-04-30',
'Device Repair', 'F', 29158, 4);
insert into employees values (144, 'Orelia', 'McBoyle', 'omcboyle3z@reddit.com', '2005-11-22',
'Children Clothing', 'F', 78053, 6);
insert into employees values (145, 'Elene', 'Ofen', 'eofen40@e-recht24.de', '2015-09-11', 'Tool
s', 'F', 43510, 2);
insert into employees values (146, 'Stanfield', 'Bagnall', null, '2015-06-01', 'Clothing', 'M',
92839, 6);
insert into employees values (147, 'Coralie', 'Shea', 'cshea42@php.net', '2004-08-17', 'Childre
n Clothing', 'F', 128326, 2);
insert into employees values (148, 'Jobina', 'Oldacre', 'joldacre43@de.vu', '2007-07-03', 'Beau
ty', 'F', 119587, 6);
insert into employees values (149, 'Brooks', 'Dinsdale', 'bdinsdale44@kickstarter.com', '2010-0
1-03', 'Cosmetics', 'F', 119774, 7);
insert into employees values (150, 'Rex', 'Cowlshaw', 'rcowlshaw45@webnode.com', '2008-02-0
8', 'Games', 'M', 124936, 4);
insert into employees values (151, 'Maximilianus', 'Woonton', 'mwoonton46@ning.com', '2008-12-1
8', 'Toys', 'M', 90399, 5);
insert into employees values (152, 'Johnette', 'Claworth', 'jclaworth47@google.pl', '2009-12-1
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insert into employees values (176, 'Billie', 'Trebbett', null, '2007-10-04', 'Furniture', 'M', 123320, 7);
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insert into employees values (188, 'Jerry', 'Novis', 'jnovis57@virginia.edu', '2015-12-07', 'Movies', 'F', 59229, 5);
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insert into employees values (195, 'Gilly', 'Gerold', 'ggerold5e@alibaba.com', '2005-07-07', 'Cosmetics', 'F', 85248, 6);
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insert into employees values (197, 'Ali', 'Arnaudet', 'aarnaudet5g@gizmodo.com', '2005-09-19', 'Decor', 'M', 65696, 4);
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insert into employees values (210, 'Lucien', 'Shayler', 'lshayler5t@elpais.com', '2004-06-11', 'Garden', 'M', 137410, 7);
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insert into employees values (216, 'Abby', 'Seawright', 'aseawright5z@ask.com', '2011-09-01', 'Jewelry', 'F', 56889, 3);
insert into employees values (217, 'Sileas', 'Rushman', 'srushman60@dion.ne.jp', '2011-02-05', 'Toys', 'F', 118649, 6);
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insert into employees values (221, 'Curran', 'Ebdin', 'cebdin64@ezinearticles.com', '2007-12-0

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insert into employees values (278, 'Murray', 'McCosh', null, '2013-08-27', 'Beauty', 'M', 138181, 7);
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10-10', 'Vitamins', 'M', 30289, 4);
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insert into employees values (487, 'Hermione', 'Bellhanger', null, '2010-11-07', 'Music', 'F', 164219, 2);
insert into employees values (488, 'Eugenius', 'Siege', 'esiegedj@gizmodo.com', '2003-01-26', 'Toys', 'M', 152118, 1);
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insert into employees values (506, 'Bartholemy', 'Crudginton', 'bcrudgintone1@dion.ne.jp', '2015-11-08', 'Vitamins', 'M', 25238, 6);
insert into employees values (507, 'Duke', 'Ashford', 'dashforde2@networkadvertising.org', '2005-11-02', 'Children Clothing', 'M', 104397, 4);
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insert into employees values (624, 'Lucius', 'Stilgoe', null, '2004-04-11', 'Grocery', 'M', 211
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ldren Clothing', 'F', 62083, 4);
insert into employees values (648, 'Abbott', 'Mundow', 'amundowhz@prlog.org', '2003-06-05', 'Au
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7', 'Cosmetics', 'F', 92991, 4);
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3', 'Device Repair', 'M', 21023, 5);
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'2005-04-16', 'Camping', 'M', 127132, 1);
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'Games', 'M', 66561, 6);
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insert into employees values (655, 'Darin', 'Pooke', null, '2016-11-18', 'Movies', 'M', 142023,
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insert into employees values (656, 'Fowler', 'Buesnel', 'fbuesneli7@yellowpages.com', '2008-03-
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insert into employees values (657, 'Adriena', 'Hugonin', 'ahugonini8@java.com', '2005-08-12',
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insert into employees values (658, 'Danice', 'Greson', 'dgresoni9@state.tx.us', '2009-02-10',
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g', 'M', 91026, 7);
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7', 'Grocery', 'F', 159307, 5);
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elry', 'M', 71801, 1);
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    'Children Clothing', 'F', 92247, 5);
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g', 'M', 68570, 7);
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4', 'Vitamins', 'F', 152916, 1);
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-14', 'Tools', 'F', 56159, 7);
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insert into employees values (722, 'Alejandro', 'Mickleburgh', 'amickleburghk1@feedburner.com',
    '2014-02-06', 'Grocery', 'M', 100530, 1);
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insert into employees values (724, 'Kath', 'Antonijevic', 'kantonijevick3@parallels.com', '2011-10-28', 'Decor', 'F', 151894, 2);
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insert into employees values (754, 'Ivie', 'Aubrey', 'iaubreykx@google.es', '2010-04-04', 'Automotive', 'F', 111359, 7);
insert into employees values (755, 'Tate', 'Leaburn', 'tleaburnky@nydailynews.com', '2013-02-10', 'Jewelry', 'M', 48460, 5);
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insert into employees values (757, 'Fredrika', 'Cudby', null, '2005-09-26', 'Games', 'F', 9760

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insert into employees values (758, 'Weylin', 'De Caville', 'wdecavillel1@theatlantic.com', '2014-01-21', 'Clothing', 'M', 86194, 5);
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insert into employees values (785, 'Keenan', 'Gerran', 'kgerranls@disqus.com', '2006-08-23', 'Maintenance', 'M', 47734, 3);
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insert into employees values (788, 'Dianemarie', 'Grundy', 'dgrundylv@aol.com', '2004-03-19', 'Furniture', 'F', 59887, 3);
insert into employees values (789, 'Ellerey', 'Galsworthy', 'egalsworthylw@fotki.com', '2009-06-16', 'Toys', 'M', 85002, 4);
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insert into employees values (791, 'Barby', 'Daniell', 'bdaniellly@cbc.ca', '2016-12-26', 'Clot
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-02-27', 'Grocery', 'F', 46062, 7);
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insert into employees values (976, 'Lydon', 'Passo', 'lpassor3@disqus.com', '2003-10-17', 'Books', 'M', 48145, 3);
insert into employees values (977, 'Vickie', 'Pryn', null, '2012-02-24', 'Movies', 'F', 33269, 4);
insert into employees values (978, 'Shem', 'Jewes', 'sjewesr5@sciencedaily.com', '2008-10-22', 'Tools', 'M', 121211, 5);
insert into employees values (979, 'Delila', 'Ambrogi', 'dambrogir6@diigo.com', '2007-06-30', 'Sports', 'F', 27064, 6);
insert into employees values (980, 'Lyndy', 'Tooker', 'ltookerr7@topsy.com', '2007-01-26', 'Computers', 'F', 112796, 4);
insert into employees values (981, 'Thorvald', 'Boncoeur', 'tboncoeur8@ucla.edu', '2005-12-17', 'Music', 'M', 34565, 6);
insert into employees values (982, 'Enid', 'Wooff', 'ewooffr9@wikipedia.org', '2014-05-17', 'Maintenance', 'F', 54434, 5);
insert into employees values (983, 'Henrik', 'Clayborn', 'hclaybornra@hexun.com', '2014-08-04', 'Device Repair', 'M', 117791, 5);
insert into employees values (984, 'Krista', 'Barnewell', 'kbarnewellrb@guardian.co.uk', '2016-02-29', 'Music', 'F', 85666, 5);
insert into employees values (985, 'Nelli', 'Glading', 'ngladingrc@lycos.com', '2010-07-11', 'Grocery', 'F', 52846, 5);
insert into employees values (986, 'Sheila', 'Matthiae', 'smatthiaerd@fotki.com', '2010-03-26', 'Computers', 'F', 23878, 1);
insert into employees values (987, 'Granny', 'Barhem', null, '2003-05-13', 'Movies', 'M', 125798, 1);
insert into employees values (988, 'Tabb', 'Huddleston', 'thuddlestonrf@yahoo.co.jp', '2003-05-02', 'Automotive', 'M', 47591, 6);
insert into employees values (989, 'Ari', 'Queripel', 'aqueripelrg@npr.org', '2013-08-30', 'Phones & Tablets', 'M', 80695, 1);
insert into employees values (990, 'Cristiano', 'Haney', 'chaneyrh@berkeley.edu', '2014-07-18', 'First Aid', 'M', 105648, 2);
insert into employees values (991, 'Marquita', 'Seawell', 'mseawellri@technorati.com', '2014-09-07', 'Sports', 'F', 38909, 4);

```

```

insert into employees values (992, 'Katharine', 'Brussels', 'kbrusselsrj@cnet.com', '2003-10-02', 'Phones & Tablets', 'F', 29806, 5);
insert into employees values (993, 'Frank', 'Garnson', 'fgarnsonrk@bloglovin.com', '2013-12-26', 'Children Clothing', 'M', 95828, 7);
insert into employees values (994, 'Aurlie', 'Kindleysides', null, '2004-05-20', 'Device Repair', 'F', 104822, 3);
insert into employees values (995, 'Reese', 'Watkin', 'rwatkinrm@typepad.com', '2014-10-21', 'Toys', 'M', 102169, 3);
insert into employees values (996, 'Gardiner', 'Aron', 'garonrn@java.com', '2015-11-29', 'Garden', 'M', 111859, 1);
insert into employees values (997, 'Rhianna', 'Trynor', 'rtrynorro@uiuc.edu', '2005-04-07', 'Beauty', 'F', 120753, 7);
insert into employees values (998, 'Brandice', 'Gillicuddy', 'bgillicuddyrp@adobe.com', '2014-11-30', 'Phones & Tablets', 'F', 134058, 2);
insert into employees values (999, 'Kingston', 'Piwall', 'kpiwallrq@nyu.edu', '2012-07-07', 'Music', 'M', 45679, 7);
insert into employees values (1000, 'Jacquelin', 'Cassam', 'jcassamrr@cam.ac.uk', '2010-01-27', 'Music', 'F', 28726, 2);

```

SELECT clause

```

-- Display all columns and its values from employees table
SELECT * FROM employees;

-- Display all columns and its values from regions table
SELECT * FROM regions;

-- Display all columns and its values from departments table
SELECT * FROM departments;

-- Display 3 columns and its values from employees table
SELECT employee_id, first_name, department FROM employees;

-- Display 2 columns and its values from regions table
SELECT region_id, region FROM regions;

```

WHERE, OR and AND clause

```

-- Filtering the employees tables using WHERE Clause
SELECT * FROM employees WHERE department = 'Sports';
SELECT * FROM employees WHERE department = 'Furniture';
SELECT * FROM employees WHERE department like '%rnit%';
SELECT * FROM employees WHERE department like 'F%rnit%';
SELECT * FROM employees WHERE salary < 100000;

-- Filtering the employees table using WHERE Clause at multiple levels using conditions
SELECT * FROM employees
WHERE department = 'Clothing'
AND salary > 90000
AND gender = 'F'
AND region_id = 4;

-- Filtering the employees table using WHERE Clause at multiple levels using conditions
SELECT * FROM employees
WHERE department = 'Clothing'
OR salary > 300000;

```

```
-- Filtering the employees table using WHERE Clause at multiple levels using conditions
SELECT * FROM employees
WHERE salary < 40000
AND (department = 'Clothing'
OR department = 'Pharmacy');

-- Filtering the employees table using WHERE Clause at multiple levels using conditions
SELECT * FROM employees
WHERE department = 'Sports' OR department = 'Tools';
```

Filtering Operators - IN, NOT IN, IS NULL, BETWEEN

```
-- 'NOT' filtering operator
SELECT * FROM employees
WHERE NOT department = 'Sports';

-- 'NOT' filtering operator
SELECT * FROM employees
WHERE department != 'Sports';

-- 'NOT' filtering operator
SELECT * FROM employees
WHERE department <> 'Sports';

-- 'NOT' filtering operator
SELECT * FROM employees
WHERE NOT department <> 'Sports';

-- 'IS NULL' filtering operator
SELECT * FROM employees
WHERE email IS NULL;

-- 'NOT' and 'IS NULL' filtering operator
SELECT * FROM employees
WHERE NOT email IS NULL;

-- 'IS NOT NULL' filtering operator
SELECT * FROM employees
WHERE email IS NOT NULL;

-- 'IN' filtering operator
SELECT * FROM employees
WHERE department IN('Sports', 'Toys', 'Garden', 'First Aid');

-- 'NOT' and 'IN' filtering operator
SELECT * FROM employees
WHERE NOT department IN('Sports', 'Toys', 'Garden', 'First Aid');

-- 'BETWEEN and AND' filtering operator
SELECT * FROM employees
WHERE salary BETWEEN 80000 AND 100000;
```

Exercise WHERE clause and OPERATIONS

```

-- Filtering and Conditions using WHERE and OPERATORS
SELECT first_name, email FROM employees
WHERE gender = 'F'
AND department = 'Tools'
AND salary > 110000;

-- Filtering and Conditions using WHERE and OPERATORS
SELECT first_name, hire_date FROM employees
WHERE salary > 165000
OR (department = 'Sports' AND gender = 'M');

-- Filtering and Conditions using WHERE and OPERATORS
SELECT first_name, hire_date FROM employees
WHERE hire_date BETWEEN '2002-01-01' AND '2004-01-01';

-- Filtering and Conditions using WHERE and OPERATORS
SELECT * FROM employees
WHERE (department = 'Automotive'
AND (salary BETWEEN 40000 AND 100000) AND gender = 'M')
OR (gender = 'F' AND department = 'Toys')

```

Using ORDER BY, LIMIT, DISTINCT, and renaming columns

```

-- Order by employee_id
SELECT * FROM employees
ORDER BY employee_id;

-- Order by salary Ascending
SELECT * FROM employees
ORDER BY salary ASC;

-- Order by salary Descending
SELECT * FROM employees
ORDER BY salary DESC;

-- Order by department ascending
SELECT DISTINCT department FROM employees
ORDER BY department;

-- Order by department (another method)
SELECT DISTINCT department FROM employees
ORDER BY 1;

-- Limiting to 10 rows
SELECT DISTINCT department FROM employees
ORDER BY 1
LIMIT 10;

-- First 5 rows only
SELECT DISTINCT department FROM employees
ORDER BY 1
FETCH FIRST 5 ROWS ONLY;

-- The below code is not correct LAST doesn't exists
SELECT DISTINCT department FROM employees
ORDER BY 1
FETCH LAST 10 ROWS ONLY;

```

```
-- Renaming the column name for display purpose
SELECT DISTINCT department AS sorted_department FROM employees
ORDER BY 1
FETCH FIRST 5 ROWS ONLY;

-- Renaming the column names for display purpose.
SELECT first_name AS "FIRST_NAME",
last_name AS "LAST_NAME",
department AS "DEPARTMENT",
salary AS "SALARY"
FROM employees;
```

UPPER(), LOWER(), LENGTH(), TRIM() + Boolean Expressions & Concatenation

```
-- UPPER and LOWER methods
SELECT UPPER(first_name), LOWER(department) FROM employees;

-- LENGTH and LOWER methods
SELECT LENGTH(first_name), LOWER(department) FROM employees;

-- Print some text
SELECT '    HELLO THERE.  ';

-- Print length of text
SELECT LENGTH('    HELLO THERE.  ');

-- Trim of text
SELECT TRIM('    HELLO THERE.  ');

-- LENGTH and TRIM methods
SELECT LENGTH(TRIM('    HELLO THERE.  '));

-- Concatenating the Full Name from employees
SELECT first_name || ' ' || last_name "FULL_NAME" FROM employees;

-- Concatenating the Full Name from employees
SELECT first_name || ' ' || last_name AS "FULL_NAME" FROM employees;

-- Concatenating the Full Name from employees
SELECT first_name || ' ' || last_name "FULL_NAME",
(salary > 140000) "SAL > 140000"
FROM employees;

-- Concatenating the Full Name and Salary > 140000
SELECT first_name || ' ' || last_name "FULL_NAME",
(salary > 140000) "IS_HIGHLY_PAID"
FROM employees
ORDER BY salary DESC;

--
SELECT department, ('Clothing' IN (department, first_name)) is_clothing
FROM employees ORDER BY is_clothing DESC;

-- Returns 'false' as 'clothing' is not capital 'C'
SELECT ('Clothing' IN ('clothing', 'phones', 'furniture'));

-- Returns 'true' as 'Clothing' is capital 'C'
SELECT ('Clothing' IN ('Clothing', 'phones', 'furniture'));

-- More filtering options
```

```
SELECT department, (department like '%oth%') is_clothing_department
FROM employees;
```

SUBSTRING, REPLACE, POSITION, COALESCE funtions

```
-- Displaying simple text message with column name
SELECT 'This is test data' test_data;

-- SUBSTRING example with filters
SELECT SUBSTRING('This is test data' FROM 9 FOR 4) substring_test_data;

-- SUBSTRING example with filters
SELECT SUBSTRING('This is test data' FROM 9) substring_test_data;

-- REPLACE example with filters
SELECT department,
REPLACE(department, 'Clothing', 'Attire') modefied_department
FROM departments;

-- REPLACE example with more filters
SELECT department,
REPLACE(department, 'Clothing', 'Attire') modified_department,
department || ' department' cancated_department
FROM departments;

-- POSITION of a character in a string
SELECT POSITION('@' IN email) position_of_At
FROM employees;

-- POSITION and SUBSTRING together
SELECT SUBSTRING(email, POSITION('@' IN email)) subscript_position_of_At
FROM employees;

-- POSITION and SUBSTRING together to extract a string
SELECT SUBSTRING(email, POSITION('@' IN email) + 1) formatted_text
FROM employees;

-- Displaying NONE in place of null for email
SELECT COALESCE(email, 'NONE') AS EMAIL FROM employees;
```

Aggregate Functions: MAX, MIN, AVG, SUB, COUNT

```
-- MAX function
SELECT MAX(salary) FROM employees;

-- MIN function
SELECT MIN(salary) FROM employees;

-- AVG function
SELECT AVG(salary) FROM employees;

-- ROUND function
SELECT ROUND(AVG(salary)) FROM employees;
```



```
-- SUM function
SELECT SUM(salary) FROM employees;

-- COUNT function
SELECT COUNT(employee_id) FROM employees;

-- COUNT function
SELECT COUNT(email) FROM employees;

-- COUNT function
SELECT COUNT(*) FROM employees;

-- SUM function in WHERE clause
SELECT SUM(salary) FROM employees
WHERE department = 'Clothing';
```

GROUP BY and HAVING clause

```
SELECT * FROM employees;

SELECT SUM(salary) FROM employees;

-- GROUP BY clause
SELECT department, SUM(salary) FROM employees
WHERE 1 = 1
GROUP BY department;

-- GROUP BY clause
SELECT department, SUM(salary) FROM employees
WHERE region_id IN (4,5,6,7)
GROUP BY department;

-- GROUP BY clause
SELECT department, COUNT(employee_id) FROM employees
GROUP BY department;

-- GROUP BY clause and ORDER BY clause with Other Aggregate functions
SELECT department, COUNT(employee_id) count_of_employees,
ROUND(AVG(salary)) avg_sal,
MIN(salary) min_sal,
MAX(salary) max_sal FROM employees
GROUP BY department
ORDER BY count_of_employees DESC;

-- GROUP BY clause and ORDER BY clause with Other Aggregate functions
SELECT department, COUNT(employee_id) count_of_employees,
ROUND(AVG(salary)) avg_sal,
MIN(salary) min_sal,
MAX(salary) max_sal FROM employees
WHERE salary > 70000
GROUP BY department
ORDER BY count_of_employees DESC;

-- Simple GROUP BY clause and ORDER BY clause
SELECT department, gender, COUNT(*)
FROM employees
GROUP BY department,gender
ORDER BY department;

-- GROUP BY, HAVING and ORDER By clause
SELECT department, COUNT(*)
```

```

FROM employees
GROUP BY department
HAVING COUNT(*) > 35
ORDER BY department;

-- Excercise: GROUP BY and HAVING
SELECT first_name, COUNT(*) name_count
FROM employees
GROUP BY first_name
HAVING COUNT(*) > 1
ORDER BY name_count DESC;

SELECT department
FROM employees
GROUP BY department;

SELECT SUBSTRING(email,POSITION('@' IN email) + 1) AS email_domain,
count(*) count_name
FROM employees
WHERE email IS NOT NULL
GROUP BY email_domain
ORDER BY count_name DESC;

SELECT gender, region_id,
MIN(salary) min_sal,
MAX(salary) max_sal,
AVG(salary) avg_sal
FROM employees
GROUP BY gender, region_id
ORDER BY gender DESC, region_id ASC;

```

Table Aliases

```

-- Plain SELECT statement
SELECT first_name, last_name, * FROM employees;

-- Below code is error as not defined from which table the department column to be fetched
SELECT department FROM employees, departments;

-- Returing department column from employees table
SELECT employees.department FROM employees, departments;

-- Returing department column from departments table
SELECT departments.department FROM employees, departments;

-- Returing department column from employees table
SELECT e.department FROM employees e, departments d;

-- Returing department column from departments table
SELECT d.department FROM employees e, departments d;

```

SUBQUERIES

```

-- Simple Sub-queries
SELECT * FROM employees
WHERE department NOT IN (SELECT department FROM departments);

```

```

-- Simple sub-queries
SELECT DISTINCT department FROM employees
WHERE department NOT IN (SELECT department FROM departments);

-- Simple sub-queries
SELECT sq.first_name, sq.salary FROM
(SELECT * FROM employees WHERE salary > 150000) AS sq

-- Simple sub-queries
SELECT sq.employee_name, sq.employee_salary FROM
(SELECT first_name employee_name, salary employee_salary FROM employees
WHERE salary > 150000) AS sq

-- Simple sub-queries
SELECT employee_name, employee_salary FROM
(SELECT first_name employee_name, salary employee_salary FROM employees
WHERE salary > 150000) AS sq

-- Below query is only for understanding.
SELECT employee_name, employee_salary, sq.employee_department FROM
(SELECT first_name employee_name, salary employee_salary,
department employee_department FROM employees WHERE salary > 150000) AS sq,
(SELECT department employee_department FROM departments) AS dp

-- This return only one record; this is legal query but doesn't make sense
SELECT first_name, last_name, salary, (SELECT first_name
FROM employees LIMIT 1) FROM employees;

-- 1st Puzzle
-- Subquery
SELECT department FROM departments
WHERE division = 'Electronics';

-- Overall Subquery
SELECT * FROM employees
WHERE department
IN (SELECT department FROM departments WHERE division = 'Electronics');

-- 2nd Puzzle - Return employees work in Asia
-- and Canada with Salary > 130000
-- Subquery
SELECT region_id FROM regions WHERE country IN ('Asia','Canada');
SELECT region_id FROM regions WHERE country = 'Asia' or country = 'Canada';
-- Overall subquery
SELECT * FROM employees
WHERE region_id IN (SELECT region_id FROM regions
WHERE country IN ('Asia','Canada'))
AND salary > 130000;

-- Overall subquery - 2nd method
SELECT * FROM employees
WHERE region_id IN (SELECT region_id FROM regions
WHERE country = 'Asia' or country = 'Canada')
AND salary > 130000;

-- 3rd Puzzle: Find first_name, department, how much less they make
-- from highest paid employee in the company and working in Asia and Canada.
SELECT first_name, department,
(SELECT MAX(salary) FROM employees)-salary AS difference_less
FROM employees
WHERE region_id IN (SELECT region_id FROM regions
WHERE country = 'Asia' or country = 'Canada');

-- Subqueries with ALL and ALL Operators
SELECT * FROM regions;
SELECT * FROM employees
WHERE region_id IN (SELECT region_id FROM regions

```

```

WHERE country = 'United States');

-- Using ANY
SELECT * FROM employees
WHERE region_id > ANY (SELECT region_id FROM regions
WHERE country = 'United States');

-- Using ALL
SELECT * FROM employees
WHERE region_id > ALL (SELECT region_id FROM regions
WHERE country = 'United States');

-- Write a query that returns all of those employees that work in
-- the kids division AND the dates at which those employees were hired is greater than
-- all of the hire_dates of employees who work in the maintenance department
SELECT * FROM employees
WHERE department = ANY (SELECT department FROM departments WHERE division = 'Kids')
AND hire_date > ALL (SELECT hire_date FROM employees WHERE department = 'Maintenance');

-- Query most frequent appearing salary 1st way
SELECT salary FROM (
SELECT salary, count(*)
FROM employees
GROUP BY salary
ORDER BY count(*) DESC, salary DESC
LIMIT 1) sal;

-- Query most frequent appearing salary 2nd way
SELECT salary FROM employees
GROUP BY salary
HAVING count(*) >= ALL (SELECT count(*) FROM employees
GROUP BY salary)
ORDER BY salary desc
LIMIT 1;

-- Create Table
CREATE TABLE dupes (id integer, name varchar(10));
INSERT INTO dupes VALUES(1, 'Suresh');
INSERT INTO dupes VALUES(2, 'Suresh');
INSERT INTO dupes VALUES(3, 'Manem');
INSERT INTO dupes VALUES(4, 'Rao');
INSERT INTO dupes VALUES(5, 'Manem');
INSERT INTO dupes VALUES(6, 'Suresh');
INSERT INTO dupes VALUES(7, 'Mahesh');

-- Verify data with SELECT query
SELECT * FROM dupes;

-- Display only the unique values based on name along with IDs
SELECT MIN(id), name FROM dupes
GROUP BY name;

-- Delete the specific data
SELECT * FROM dupes
WHERE id IN (SELECT MIN(id) FROM dupes GROUP BY name);

-- Delete the specific data
DELETE FROM dupes
WHERE id NOT IN (SELECT MIN(id) FROM dupes GROUP BY name);

-- Drop the table
DROP TABLE dupes;

-- Find Salary Outlier from employees table
SELECT ROUND(AVG(salary)) FROM employees
WHERE salary NOT IN ((SELECT MIN(salary) FROM employees), (SELECT MAX(salary) FROM employees));

```

Conditional Expressions Using the CASE clause + Exercise

```
-- Using the CASE clause with CONDITIONS
SELECT first_name, salary,
CASE
WHEN salary < 100000 THEN 'UNDER PAID'
WHEN salary > 100000 AND salary < 160000 THEN 'PAID WELL'
WHEN salary > 160000 THEN 'EXECUTIVE'
ELSE 'UNPAID'
END AS Category
FROM employees
ORDER BY salary DESC;

-- Find the salary category and count of employees
SELECT sq.Category, COUNT(*) FROM (SELECT first_name, salary,
CASE
  WHEN salary < 100000 THEN 'UNDER PAID'
  WHEN salary > 100000 AND salary < 160000 THEN 'PAID WELL'
  WHEN salary > 160000 THEN 'EXECUTIVE'
  ELSE 'UNPAID'
END AS Category
FROM employees
ORDER BY salary DESC) AS sq
GROUP BY sq.Category;

-- Transposing the data
SELECT SUM(CASE WHEN salary < 100000 THEN 1 ELSE 0 END) AS under_paid,
SUM(CASE WHEN salary > 100000 AND salary < 160000 THEN 1 ELSE 0 END) AS paid_well,
SUM(CASE WHEN salary > 160000 THEN 1 ELSE 0 END) AS executive
FROM employees;

-- Returning only specific set of data
SELECT department, COUNT(*)
FROM employees
WHERE department IN ('Sports','Tools','Clothing','Computers')
GROUP BY department;

-- Returning only specific set of data and and Transposing
SELECT SUM(CASE WHEN department = 'Sports' THEN 1 ELSE 0 END) AS sports_employees,
SUM(CASE WHEN department = 'Tools' THEN 1 ELSE 0 END) AS tools_employees,
SUM(CASE WHEN department = 'Clothing' THEN 1 ELSE 0 END) AS clothing_employees,
SUM(CASE WHEN department = 'Computers' THEN 1 ELSE 0 END) AS computers_employees
FROM employees;

-- Retrieving specific data and Transposing
SELECT first_name,
(CASE WHEN region_id = 1 THEN (SELECT country FROM regions WHERE region_id = 1) END) AS region_1,
(CASE WHEN region_id = 2 THEN (SELECT country FROM regions WHERE region_id = 2) END) AS region_2,
(CASE WHEN region_id = 3 THEN (SELECT country FROM regions WHERE region_id = 3) END) AS region_3,
(CASE WHEN region_id = 4 THEN (SELECT country FROM regions WHERE region_id = 4) END) AS region_4,
(CASE WHEN region_id = 5 THEN (SELECT country FROM regions WHERE region_id = 5) END) AS region_5,
(CASE WHEN region_id = 6 THEN (SELECT country FROM regions WHERE region_id = 6) END) AS region_6,
(CASE WHEN region_id = 7 THEN (SELECT country FROM regions WHERE region_id = 7) END) AS region_7
FROM employees;

SELECT COUNT(region_1)+COUNT(region_2)+COUNT(region_3) AS united_states,
COUNT(region_4)+COUNT(region_5) AS asia,
COUNT(region_6)+COUNT(region_7) AS canada
FROM (SELECT first_name,
```

```

(CASE WHEN region_id = 1 THEN (SELECT country FROM regions WHERE region_id = 1) END) AS region_1,
(CASE WHEN region_id = 2 THEN (SELECT country FROM regions WHERE region_id = 2) END) AS region_2,
(CASE WHEN region_id = 3 THEN (SELECT country FROM regions WHERE region_id = 3) END) AS region_3,
(CASE WHEN region_id = 4 THEN (SELECT country FROM regions WHERE region_id = 4) END) AS region_4,
(CASE WHEN region_id = 5 THEN (SELECT country FROM regions WHERE region_id = 5) END) AS region_5,
(CASE WHEN region_id = 6 THEN (SELECT country FROM regions WHERE region_id = 6) END) AS region_6,
(CASE WHEN region_id = 7 THEN (SELECT country FROM regions WHERE region_id = 7) END) AS region_7
FROM employees) AS sq;

SELECT united_states+asia+canada AS total_count FROM
(SELECT COUNT(region_1)+COUNT(region_2)+COUNT(region_3) AS united_states,
COUNT(region_4)+COUNT(region_5) AS asia,
COUNT(region_6)+COUNT(region_7) AS canada
FROM (SELECT first_name,
(CASE WHEN region_id = 1 THEN (SELECT country FROM regions WHERE region_id = 1) END) AS region_1,
(CASE WHEN region_id = 2 THEN (SELECT country FROM regions WHERE region_id = 2) END) AS region_2,
(CASE WHEN region_id = 3 THEN (SELECT country FROM regions WHERE region_id = 3) END) AS region_3,
(CASE WHEN region_id = 4 THEN (SELECT country FROM regions WHERE region_id = 4) END) AS region_4,
(CASE WHEN region_id = 5 THEN (SELECT country FROM regions WHERE region_id = 5) END) AS region_5,
(CASE WHEN region_id = 6 THEN (SELECT country FROM regions WHERE region_id = 6) END) AS region_6,
(CASE WHEN region_id = 7 THEN (SELECT country FROM regions WHERE region_id = 7) END) AS region_7
FROM employees) AS sq) AS total_count;

```

Understanding Correlated Subqueries

```

SELECT first_name, salary
FROM employees e1
WHERE salary > (SELECT ROUND(AVG(salary))
                FROM employees e2
                WHERE e1.department = e2.department);

SELECT first_name, department, salary,
(SELECT ROUND(AVG(salary))
 FROM employees e2
 WHERE e1.department = e2.department) AS avg_department_sal
FROM employees e1;

-- Most efficient way
SELECT department
FROM departments d
WHERE 38 < (SELECT COUNT(*)
           FROM employees e
           WHERE e.department = d.department);

-- Legal query but incorrect
SELECT department
FROM employees e1
WHERE 38 < (SELECT COUNT(*)
           FROM employees e2
           WHERE e1.department = e2.department);

-- Method 1
SELECT DISTINCT department
FROM employees e1
WHERE 38 < (SELECT COUNT(*)
           FROM employees e2
           WHERE e1.department = e2.department);

-- Method 2
SELECT department

```



```

FROM employees e1
WHERE 38 < (SELECT COUNT(*)
           FROM employees e2
           WHERE e1.department = e2.department)
GROUP BY department;

-- Most efficient way
SELECT department, (SELECT MAX(salary) FROM employees
WHERE department = d.department)
FROM departments d
WHERE 38 < (SELECT COUNT(*)
           FROM employees e
           WHERE e.department = d.department);

-- Below query 1 and query 2 will show same results
-- Query 1 and verify the results
SELECT department, (SELECT MAX(salary) FROM employees
WHERE department = d.department)
FROM departments d;

-- Query 2 and verify the results
SELECT department, MAX(salary)
FROM employees
GROUP BY department;

-- Most complex query; even if it take 2 weeks, it is still worth it.
SELECT department, first_name, salary,
CASE
  WHEN salary = max_by_department THEN 'HIGHEST SALARY'
  WHEN salary = min_by_department THEN 'LOWEST SALARY'
END AS salary_in_department
FROM (SELECT department, first_name, salary,
  (SELECT MAX(salary) FROM employees e2
  WHERE e1.department = e2.department) AS max_by_department,
  (SELECT MIN(salary) FROM employees e2
  WHERE e1.department = e2.department) AS min_by_department
FROM employees e1) AS sq
WHERE salary = max_by_department OR salary = min_by_department
ORDER BY department;

```

Intro to Table JOINS

```

SELECT first_name, country
FROM employees, regions
WHERE employees.region_id = regions.region_id;

SELECT first_name, email, e.department, division, country
FROM employees e, departments d, regions r
WHERE e.department = d.department
AND e.region_id = r.region_id
AND e.email IS NOT NULL;

SELECT r.country, COUNT(e.employee_id)
FROM regions r, employees e
WHERE r.region_id = e.region_id
GROUP BY country;

SELECT r.country, COUNT(e.employee_id)
FROM (SELECT * FROM regions) r, employees e
WHERE r.region_id = e.region_id
GROUP BY country;

```

```

-- Exercises
SELECT first_name, country
FROM employees INNER JOIN regions
ON employees.region_id = regions.region_id;

SELECT first_name, email, division
FROM employees INNER JOIN departments
ON employees.department = departments.department
WHERE email IS NOT NULL;

SELECT first_name, email, division
FROM employees
INNER JOIN departments ON employees.department = departments.department
INNER JOIN regions ON employees.region_id = regions.region_id
WHERE email IS NOT NULL;

-- Returns 27 records
SELECT DISTINCT department FROM employees;

-- Returns 24 records
SELECT DISTINCT department FROM departments;

-- this INNER JOIN query only returns matching in both tables
SELECT DISTINCT employees.department, departments.department
FROM employees INNER JOIN departments ON departments.department = employees.department;

-- this LEFT JOIN query returns matching with Left table preference
SELECT DISTINCT employees.department employees_department,
departments.department departments_department
FROM employees
LEFT JOIN departments ON departments.department = employees.department;

-- this LEFT JOIN query returns matching with Left table
-- preference and department is NULL in departments table
SELECT DISTINCT employees.department employees_department
FROM employees
LEFT JOIN departments ON departments.department = employees.department
WHERE departments.department IS NULL;

-- this RIGHT JOIN query returns matching with Right table preference
SELECT DISTINCT employees.department employees_department,
departments.department departments_department
FROM employees
RIGHT JOIN departments ON departments.department = employees.department;

-- this FULL OUTER JOIN query returns matching with
-- BOTH Left and Right table preference
SELECT DISTINCT employees.department employees_department,
departments.department departments_department
FROM employees
FULL OUTER JOIN departments ON departments.department = employees.department;

```

Using UNION, UNION ALL, and EXCEPT Clauses

```

SELECT department
FROM employees
UNION
SELECT department
FROM departments;

SELECT DISTINCT department
FROM employees

```

```

UNION ALL
SELECT department
FROM departments;

SELECT DISTINCT department
FROM employees
EXCEPT
SELECT department
FROM departments;

SELECT department
FROM departments
EXCEPT
SELECT DISTINCT department
FROM employees;

SELECT department, COUNT(*)
FROM employees
GROUP BY department
UNION ALL
SELECT 'TOTAL',COUNT(*)
FROM employees;

```

Cartesian Product with the Cross Join

```

-- Returns 24000 record with repeating employee details
-- employees table has 1000 records and departments table has 24 records
SELECT COUNT(*) FROM (SELECT * FROM employees, departments) AS sq

-- Cartesian Product
SELECT * FROM employees e CROSS JOIN departments d;

```

More Practice on JOINS and SUB-QUERIES

```

(SELECT first_name, department, hire_date, country
FROM employees e INNER JOIN regions r
ON e.region_id = r.region_id
WHERE hire_date = (SELECT MIN(hire_date) FROM employees e2)
LIMIT 1)
UNION ALL
SELECT first_name, department, hire_date, country
FROM employees e INNER JOIN regions r
ON e.region_id = r.region_id
WHERE hire_date = (SELECT MAX(hire_date) FROM employees e2)
ORDER BY hire_date DESC;

-- Query is Legal but doesn't make any sense
SELECT first_name, hire_date, hire_date + 90
FROM employees
WHERE hire_date BETWEEN hire_date AND hire_date - 90;

--
SELECT hire_date,salary,
(SELECT SUM(salary) FROM employees e2
WHERE e2.hire_date BETWEEN e.hire_date - 90
AND e.hire_date) AS spending_pattern

```

```
FROM employees e
ORDER BY hire_date;
```

Views

```
-- Also called as Virtual tables

CREATE VIEW v_employee_information AS
SELECT first_name, email, e.department, salary, division, region, country
FROM employees e, department d, regions r
WHERE e.department = d.department
AND e.region_id = r.region_id;

SELECT * FROM v_employee_information;

-- INLINE QUERIES
-- Not sure about why the below query is not working
SELECT * FROM (SELECT * from departments);
```

Window Functions with the OVER clause

```
-- The below query is expensive as
-- the subquery is executed for every record in the table
SELECT first_name, department, (SELECT COUNT(*)
FROM employees e1 WHERE e1.department = e2.department)
FROM employees e2
GROUP BY department, first_name;

-- Alternate best way is
SELECT first_name, department,
COUNT(*) OVER(PARTITION BY department)
FROM employees e2;

-- There is no difference of records
-- and to verify run below query
(SELECT first_name, department, (SELECT COUNT(*)
FROM employees e1 WHERE e1.department = e2.department)
FROM employees e2
GROUP BY department, first_name)
EXCEPT
SELECT first_name, department,
COUNT(*) OVER(PARTITION BY department)
FROM employees e2;

-- Sum of salary partitioned by department
SELECT first_name, department,
SUM(salary) OVER(PARTITION BY department)
FROM employees e2;

-- Partitioning all
SELECT first_name, department,
SUM(salary) OVER()
FROM employees e2;

--
SELECT first_name, department,
COUNT(*) OVER(PARTITION BY department) department_count,
```

```

region_id,
COUNT(*) OVER(PARTITION BY region_id) region_count
FROM employees e2;

```

Using ORDER BY in the OVER Clause

```

-- Calculating the running sum of salaries
SELECT first_name, hire_date, salary,
SUM(salary) OVER(ORDER BY hire_date RANGE BETWEEN UNBOUNDED
PRECEDING AND CURRENT ROW)
as running_total_of_salaries
FROM employees;

-- Another way
SELECT first_name, hire_date, salary,
SUM(salary) OVER(ORDER BY hire_date)
as running_total_of_salaries
FROM employees;

-- By partition by department
SELECT first_name, hire_date, salary,
SUM(salary) OVER(PARTITION BY department ORDER BY hire_date)
as running_total_of_salaries
FROM employees;

-- Another fancy way
SELECT first_name, hire_date, department, salary,
SUM(salary) OVER(PARTITION BY department ORDER BY hire_date)
as running_total_of_salaries
FROM employees;

-- Understanding the query to sum the preceding values
SELECT first_name, hire_date, department, salary,
SUM(salary) OVER(ORDER BY hire_date ROWS BETWEEN 1 PRECEDING
AND CURRENT ROW)
FROM employees;

```

Ranking and Bucketing Data using Window Function

```

-- Ranking
SELECT first_name, email, department, salary,
RANK() OVER(PARTITION BY department ORDER BY salary DESC)
FROM employees;

-- Ranking by Where Condition
SELECT * FROM (SELECT first_name, email, department, salary,
RANK() OVER(PARTITION BY department ORDER BY salary DESC)
FROM employees) as sq
WHERE rank = 8;

-- Ranking by Group using NTile
SELECT first_name, email, department, salary,
NTILE(5) OVER(PARTITION BY department
ORDER BY salary DESC) AS salary_bracket
FROM employees;

```

```

-- FIRST_VALUE
SELECT first_name, email, department, salary,
FIRST_VALUE(salary) OVER(PARTITION BY department
ORDER BY salary DESC) AS first_value
FROM employees;

-- first_value by first_name
SELECT first_name, email, department, salary,
FIRST_VALUE(salary) OVER(PARTITION BY department
ORDER BY first_name ASC) AS first_value
FROM employees;

-- nth_value
SELECT first_name, email, department, salary,
nth_value(salary,5) OVER(PARTITION BY department
ORDER BY first_name ASC) AS nth_value
FROM employees;

```

LEAD and LAG function

```

-- Show the next salary
SELECT first_name, last_name, salary,
LEAD(salary) OVER() AS next_salary
FROM employees;

-- Show the previous salary
SELECT first_name, last_name, salary,
LAG(salary) OVER() AS previous_salary
FROM employees;

-- Closest salary for next or previous employee
SELECT department, first_name, last_name, salary,
LAG(salary) OVER(ORDER BY salary DESC) AS closest_higher_salary
FROM employees;

-- Closest Lower Salary
SELECT department, first_name, last_name, salary,
LEAD(salary) OVER(ORDER BY salary DESC) AS closest_lower_salary
FROM employees;

-- Closest Lower Salary partition by department
SELECT department, first_name, last_name, salary,
LEAD(salary) OVER(PARTITION BY department
ORDER BY salary DESC) AS closest_lower_salary
FROM employees;

```

Working with Rollups and Cubes

```

-- Create Sales Table
CREATE TABLE sales
(
continent varchar(20),
country varchar(20),
city varchar(20),
units_sold integer

```

```

);

-- Insert Data into the Sales table
INSERT INTO sales VALUES ('North America', 'Canada', 'Toronto', 10000);
INSERT INTO sales VALUES ('North America', 'Canada', 'Montreal', 5000);
INSERT INTO sales VALUES ('North America', 'Canada', 'Vancouver', 15000);
INSERT INTO sales VALUES ('Asia', 'China', 'Hong Kong', 7000);
INSERT INTO sales VALUES ('Asia', 'China', 'Shanghai', 3000);
INSERT INTO sales VALUES ('Asia', 'Japan', 'Tokyo', 5000);
INSERT INTO sales VALUES ('Europe', 'UK', 'London', 6000);
INSERT INTO sales VALUES ('Europe', 'UK', 'Manchester', 12000);
INSERT INTO sales VALUES ('Europe', 'France', 'Paris', 5000);

-- Query the tsales table
SELECT * FROM sales
ORDER BY continent, country, city;

-- Group by Continent
SELECT continent, sum(units_sold)
FROM sales
GROUP BY continent;

-- Group by Country
SELECT country, sum(units_sold)
FROM sales
GROUP BY country;

-- Group by City
SELECT city, sum(units_sold)
FROM sales
GROUP BY city;

-- Grouping Sets
SELECT continent, country, city, SUM(units_sold)
FROM sales
GROUP BY GROUPING SETS(continent, country, city);

-- Grouping Sets
SELECT continent, country, city, SUM(units_sold)
FROM sales
GROUP BY GROUPING SETS(continent, country, city, ());

-- Using Rollup instead of Grouping Sets
SELECT continent, country, city, SUM(units_sold)
FROM sales
GROUP BY ROLLUP(continent, country, city);

-- Using CUBE
SELECT continent, country, city, SUM(units_sold)
FROM sales
GROUP BY CUBE(continent, country, city);

```

— End of File; but not the Learning —