Welcome to the MariaDB monitor. Commands end with ; or \g. Your MariaDB connection id is 2 Server version: 10.1.21-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases; +--------------------+ | Database | +--------------------+ | information\_schema | | test | +--------------------+ 2 rows in set (0.00 sec)

MariaDB [(none)]> use test; Database changed MariaDB [test]> CREATE TABLE IF NOT EXISTS countries ( COUNTRY\_ID varchar(2) NOT NULL, COUNTRY\_NAME varchar(40) DEFAULT NULL, REGION\_ID decimal(10,0) DEFAULT NULL, PRIMARY KEY (COUNTRY\_ID), KEY COUNTR\_REG\_FK (REGION\_ID)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.01 sec)

MariaDB [test]> INSERT INTO countries (COUNTRY\_ID, COUNTRY\_NAME, REGION\_ID) VALUES('AR', 'Argentina', '2'),('AU', 'Australia', '3'),('BE', 'Belgium', '1'),('BR', 'Brazil', '2'),('CA', 'Canada', '2'),('CH', 'Switzerland', '1'),('CN', 'China', '3'),('DE', 'Germany', '1'),('DK', 'Denmark', '1'),('EG', 'Egypt', '4'),('FR', 'France', '1'),('HK', 'HongKong', '3'),('IL', 'Israel', '4'),('IN', 'India', '3'),('IT', 'Italy', '1'),('JP', 'Japan', '3'),('KW', 'Kuwait', '4'),('MX', 'Mexico', '2'),('NG', 'Nigeria', '4'),('NL', 'Netherlands', '1'),('SG', 'Singapore', '3'),('UK', 'United Kingdom', '1'),('US', 'United States of America', '2'),('ZM', 'Zambia', '4'),('ZW', 'Zimbabwe', '4'); Query OK, 25 rows affected (0.00 sec) Records: 25 Duplicates: 0 Warnings: 0

MariaDB [test]> CREATE TABLE IF NOT EXISTS departments ( DEPARTMENT\_IDdecimal(4,0) NOT NULL DEFAULT '0', DEPARTMENT\_NAME varchar(30) NOT NULL,MANAGER\_ID decimal(6,0) DEFAULT NULL, LOCATION\_ID decimal(4,0) DEFAULT NULL, PRIMARY KEY (DEPARTMENT\_ID), KEY DEPT\_MGR\_FK (MANAGER\_ID), KEY DEPT\_LOCATION\_IX(LOCATION\_ID)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.01 sec)

MariaDB [test]> INSERT INTO departments (DEPARTMENT\_ID, DEPARTMENT\_NAME, MANAGER\_ID, LOCATION\_ID) VALUES('10', 'Administration', '200', '1700'),('20', 'Marketing', '201', '1800'),('30', 'Purchasing', '114', '1700'),('40', 'Human Resources', '203', '2400'),('50', 'Shipping', '121', '1500'),('60', 'IT', '103', '1400'),('70', 'Public Relations', '204', '2700'),('80', 'Sales', '145', '2500'),('90', 'Executive', '100', '1700'),('100', 'Finance', '108', '1700'),('110', 'Accounting', '205', '1700'),('120', 'Treasury', '0', '1700'),('130', 'Corporate Tax', '0', '1700'),('140', 'Control And Credit', '0', '1700'),('150', 'Shareholder Services', '0', '1700'),('160', 'Benefits', '0', '1700'),('170', 'Manufacturing', '0', '1700'),('180', 'Construction', '0', '1700'),('190', 'Contracting', '0', '1700'),('200', 'Operations', '0', '1700'),('210', 'IT Support', '0', '1700'),('220', 'NOC', '0', '1700'),('230', 'IT Helpdesk', '0', '1700'),('240', 'Government Sales', '0', '1700'),('250', 'Retail Sales', '0', '1700'),('260', 'Recruiting', '0', '1700'),('270', 'Payroll', '0', '1700'); Query OK, 27 rows affected (0.00 sec) Records: 27 Duplicates: 0 Warnings: 0

MariaDB [test]> CREATE TABLE IF NOT EXISTS employees ( EMPLOYEE\_ID decimal(6,0) NOT NULL DEFAULT '0', FIRST\_NAME varchar(20) DEFAULT NULL, LAST\_NAME varchar(25) NOT NULL, EMAIL varchar(25) NOT NULL, PHONE\_NUMBER varchar(20) DEFAULT NULL,HIRE\_DATE date NOT NULL, JOB\_ID varchar(10) NOT NULL, SALARY decimal(8,2) DEFAULT NULL, COMMISSION\_PCT decimal(2,2) DEFAULT NULL, MANAGER\_ID decimal(6,0) DEFAULT NULL, DEPARTMENT\_ID decimal(4,0) DEFAULT NULL, PRIMARY KEY (EMPLOYEE\_ID), UNIQUE KEY EMP\_EMAIL\_UK (EMAIL), KEY EMP\_DEPARTMENT\_IX(DEPARTMENT\_ID), KEY EMP\_JOB\_IX (JOB\_ID), KEY EMP\_MANAGER\_IX (MANAGER\_ID), KEY EMP\_NAME\_IX (LAST\_NAME,FIRST\_NAME)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> INSERT INTO employees (EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, EMAIL, PHONE\_NUMBER, HIRE\_DATE, JOB\_ID, SALARY, COMMISSION\_PCT, MANAGER\_ID, DEPARTMENT\_ID) VALUES('100', 'Steven', 'King', 'SKING', '515.123.4567', '1987-06-17', 'AD\_PRES', '24000.00', '0.00', '0', '90'),('101', 'Neena', 'Kochhar', 'NKOCHHAR', '515.123.4568', '1987-06-18', 'AD\_VP', '17000.00', '0.00', '100', '90'),('102', 'Lex', 'De Haan', 'LDEHAAN', '515.123.4569', '1987-06-19', 'AD\_VP', '17000.00', '0.00', '100', '90'),('103', 'Alexander', 'Hunold', 'AHUNOLD', '590.423.4567', '1987-06-20', 'IT\_PROG', '9000.00', '0.00', '102', '60'),('104', 'Bruce', 'Ernst', 'BERNST', '590.423.4568', '1987-06-21', 'IT\_PROG', '6000.00', '0.00', '103', '60'),('105', 'David', 'Austin', 'DAUSTIN', '590.423.4569', '1987-06-22', 'IT\_PROG', '4800.00', '0.00', '103', '60'),('106', 'Valli', 'Pataballa', 'VPATABAL', '590.423.4560', '1987-06-23', 'IT\_PROG', '4800.00', '0.00', '103', '60'),('107', 'Diana', 'Lorentz', 'DLORENTZ', '590.423.5567', '1987-06-24', 'IT\_PROG', '4200.00', '0.00', '103', '60'),('108', 'Nancy', 'Greenberg', 'NGREENBE', '515.124.4569', '1987-06-25', 'FI\_MGR', '12000.00', '0.00', '101', '100'),('109', 'Daniel', 'Faviet', 'DFAVIET', '515.124.4169', '1987-06-26', 'FI\_ACCOUNT', '9000.00', '0.00', '108', '100'),('110', 'John', 'Chen', 'JCHEN', '515.124.4269', '1987-06-27', 'FI\_ACCOUNT', '8200.00', '0.00', '108', '100'),('111', 'Ismael', 'Sciarra', 'ISCIARRA', '515.124.4369', '1987-06-28', 'FI\_ACCOUNT', '7700.00', '0.00', '108', '100'),('112', 'Jose Manuel', 'Urman', 'JMURMAN', '515.124.4469', '1987-06-29', 'FI\_ACCOUNT', '7800.00', '0.00', '108', '100'),('113', 'Luis', 'Popp', 'LPOPP', '515.124.4567', '1987-06-30', 'FI\_ACCOUNT', '6900.00', '0.00', '108', '100'),('114', 'Den', 'Raphaely', 'DRAPHEAL', '515.127.4561', '1987-07-01', 'PU\_MAN', '11000.00', '0.00', '100', '30'),('115', 'Alexander', 'Khoo', 'AKHOO', '515.127.4562', '1987-07-02', 'PU\_CLERK', '3100.00', '0.00', '114', '30'),('116', 'Shelli', 'Baida', 'SBAIDA', '515.127.4563', '1987-07-03', 'PU\_CLERK', '2900.00', '0.00', '114', '30'),('117', 'Sigal', 'Tobias', 'STOBIAS', '515.127.4564', '1987-07-04', 'PU\_CLERK', '2800.00', '0.00', '114', '30'),('118', 'Guy', 'Himuro', 'GHIMURO', '515.127.4565', '1987-07-05', 'PU\_CLERK', '2600.00', '0.00', '114', '30'),('119', 'Karen', 'Colmenares', 'KCOLMENA', '515.127.4566', '1987-07-06', 'PU\_CLERK', '2500.00', '0.00', '114', '30'),('120', 'Matthew', 'Weiss', 'MWEISS', '650.123.1234', '1987-07-07', 'ST\_MAN', '8000.00', '0.00', '100', '50'),('121', 'Adam', 'Fripp', 'AFRIPP', '650.123.2234', '1987-07-08', 'ST\_MAN', '8200.00', '0.00', '100', '50'),('122', 'Payam', 'Kaufling', 'PKAUFLIN', '650.123.3234', '1987-07-09', 'ST\_MAN', '7900.00', '0.00', '100', '50'),('123', 'Shanta', 'Vollman', 'SVOLLMAN', '650.123.4234', '1987-07-10', 'ST\_MAN', '6500.00', '0.00', '100', '50'),('124', 'Kevin', 'Mourgos', 'KMOURGOS', '650.123.5234', '1987-07-11', 'ST\_MAN', '5800.00', '0.00', '100', '50'),('125', 'Julia', 'Nayer', 'JNAYER', '650.124.1214', '1987-07-12', 'ST\_CLERK', '3200.00', '0.00', '120', '50'),('126', 'Irene', 'Mikkilineni', 'IMIKKILI', '650.124.1224', '1987-07-13', 'ST\_CLERK', '2700.00', '0.00', '120', '50'),('127', 'James', 'Landry', 'JLANDRY', '650.124.1334', '1987-07-14', 'ST\_CLERK', '2400.00', '0.00', '120', '50'),('128', 'Steven', 'Markle', 'SMARKLE', '650.124.1434', '1987-07-15', 'ST\_CLERK', '2200.00', '0.00', '120', '50'),('129', 'Laura', 'Bissot', 'LBISSOT', '650.124.5234', '1987-07-16', 'ST\_CLERK', '3300.00', '0.00', '121', '50'),('130', 'Mozhe', 'Atkinson', 'MATKINSO', '650.124.6234', '1987-07-17', 'ST\_CLERK', '2800.00', '0.00', '121', '50'),('131', 'James', 'Marlow', 'JAMRLOW', '650.124.7234', '1987-07-18', 'ST\_CLERK', '2500.00', '0.00', '121', '50'),('132', 'TJ', 'Olson', 'TJOLSON', '650.124.8234', '1987-07-19', 'ST\_CLERK', '2100.00', '0.00', '121', '50'),('133', 'Jason', 'Mallin', 'JMALLIN', '650.127.1934', '1987-07-20', 'ST\_CLERK', '3300.00', '0.00', '122', '50'),('134', 'Michael', 'Rogers', 'MROGERS', '650.127.1834', '1987-07-21', 'ST\_CLERK', '2900.00', '0.00', '122', '50'),('135', 'Ki', 'Gee', 'KGEE', '650.127.1734', '1987-07-22', 'ST\_CLERK', '2400.00', '0.00', '122', '50'),('136', 'Hazel', 'Philtanker', 'HPHILTAN', '650.127.1634', '1987-07-23', 'ST\_CLERK', '2200.00', '0.00', '122', '50'),('137', 'Renske', 'Ladwig', 'RLADWIG', '650.121.1234', '1987-07-24', 'ST\_CLERK', '3600.00', '0.00', '123', '50'),('138', 'Stephen', 'Stiles', 'SSTILES', '650.121.2034', '1987-07-25', 'ST\_CLERK', '3200.00', '0.00', '123', '50'),('139', 'John', 'Seo', 'JSEO', '650.121.2019', '1987-07-26', 'ST\_CLERK', '2700.00', '0.00', '123', '50'),('140', 'Joshua', 'Patel', 'JPATEL', '650.121.1834', '1987-07-27', 'ST\_CLERK', '2500.00', '0.00', '123', '50'),('141', 'Trenna', 'Rajs', 'TRAJS', '650.121.8009', '1987-07-28', 'ST\_CLERK', '3500.00', '0.00', '124', '50'),('142', 'Curtis', 'Davies', 'CDAVIES', '650.121.2994', '1987-07-29', 'ST\_CLERK', '3100.00', '0.00', '124', '50'),('143', 'Randall', 'Matos', 'RMATOS', '650.121.2874', '1987-07-30', 'ST\_CLERK', '2600.00', '0.00', '124', '50'),('144', 'Peter', 'Vargas', 'PVARGAS', '650.121.2004', '1987-07-31', 'ST\_CLERK', '2500.00', '0.00', '124', '50'),('145', 'John', 'Russell', 'JRUSSEL', '011.44.1344.429268', '1987-08-01', 'SA\_MAN', '14000.00', '0.40', '100', '80'),('146', 'Karen', 'Partners', 'KPARTNER', '011.44.1344.467268', '1987-08-02', 'SA\_MAN', '13500.00', '0.30', '100', '80'),('147', 'Alberto', 'Errazuriz', 'AERRAZUR', '011.44.1344.429278', '1987-08-03', 'SA\_MAN', '12000.00', '0.30', '100', '80'),('148', 'Gerald', 'Cambrault', 'GCAMBRAU', '011.44.1344.619268', '1987-08-04', 'SA\_MAN', '11000.00', '0.30', '100', '80'),('149', 'Eleni', 'Zlotkey', 'EZLOTKEY', '011.44.1344.429018', '1987-08-05', 'SA\_MAN', '10500.00', '0.20', '100', '80'),('150', 'Peter', 'Tucker', 'PTUCKER', '011.44.1344.129268', '1987-08-06', 'SA\_REP', '10000.00', '0.30', '145', '80'),('151', 'David', 'Bernstein', 'DBERNSTE', '011.44.1344.345268', '1987-08-07', 'SA\_REP', '9500.00', '0.25', '145', '80'),('152', 'Peter', 'Hall', 'PHALL', '011.44.1344.478968', '1987-08-08', 'SA\_REP', '9000.00', '0.25', '145', '80'),('153', 'Christopher', 'Olsen', 'COLSEN', '011.44.1344.498718', '1987-08-09', 'SA\_REP', '8000.00', '0.20', '145', '80'),('154', 'Nanette', 'Cambrault', 'NCAMBRAU', '011.44.1344.987668', '1987-08-10', 'SA\_REP', '7500.00', '0.20', '145', '80'),('155', 'Oliver', 'Tuvault', 'OTUVAULT', '011.44.1344.486508', '1987-08-11', 'SA\_REP', '7000.00', '0.15', '145', '80'),('156', 'Janette', 'King', 'JKING', '011.44.1345.429268', '1987-08-12', 'SA\_REP', '10000.00', '0.35', '146', '80'),('157', 'Patrick', 'Sully', 'PSULLY', '011.44.1345.929268', '1987-08-13', 'SA\_REP', '9500.00', '0.35', '146', '80'),('158', 'Allan', 'McEwen', 'AMCEWEN', '011.44.1345.829268', '1987-08-14', 'SA\_REP', '9000.00', '0.35', '146', '80'),('159', 'Lindsey', 'Smith', 'LSMITH', '011.44.1345.729268', '1987-08-15', 'SA\_REP', '8000.00', '0.30', '146', '80'),('160', 'Louise', 'Doran', 'LDORAN', '011.44.1345.629268', '1987-08-16', 'SA\_REP', '7500.00', '0.30', '146', '80'),('161', 'Sarath', 'Sewall', 'SSEWALL', '011.44.1345.529268', '1987-08-17', 'SA\_REP', '7000.00', '0.25', '146', '80'),('162', 'Clara', 'Vishney', 'CVISHNEY', '011.44.1346.129268', '1987-08-18', 'SA\_REP', '10500.00', '0.25', '147', '80'),('163', 'Danielle', 'Greene', 'DGREENE', '011.44.1346.229268', '1987-08-19', 'SA\_REP', '9500.00', '0.15', '147', '80'),('164', 'Mattea', 'Marvins', 'MMARVINS', '011.44.1346.329268', '1987-08-20', 'SA\_REP', '7200.00', '0.10', '147', '80'),('165', 'David', 'Lee', 'DLEE', '011.44.1346.529268', '1987-08-21', 'SA\_REP', '6800.00', '0.10', '147', '80'),('166', 'Sundar', 'Ande', 'SANDE', '011.44.1346.629268', '1987-08-22', 'SA\_REP', '6400.00', '0.10', '147', '80'),('167', 'Amit', 'Banda', 'ABANDA', '011.44.1346.729268', '1987-08-23', 'SA\_REP', '6200.00', '0.10', '147', '80'),('168', 'Lisa', 'Ozer', 'LOZER', '011.44.1343.929268', '1987-08-24', 'SA\_REP', '11500.00', '0.25', '148', '80'),('169', 'Harrison', 'Bloom', 'HBLOOM', '011.44.1343.829268', '1987-08-25', 'SA\_REP', '10000.00', '0.20', '148', '80'),('170', 'Tayler', 'Fox', 'TFOX', '011.44.1343.729268', '1987-08-26', 'SA\_REP', '9600.00', '0.20', '148', '80'),('171', 'William', 'Smith', 'WSMITH', '011.44.1343.629268', '1987-08-27', 'SA\_REP', '7400.00', '0.15', '148', '80'),('172', 'Elizabeth', 'Bates', 'EBATES', '011.44.1343.529268', '1987-08-28', 'SA\_REP', '7300.00', '0.15', '148', '80'),('173', 'Sundita', 'Kumar', 'SKUMAR', '011.44.1343.329268', '1987-08-29', 'SA\_REP', '6100.00', '0.10', '148', '80'),('174', 'Ellen', 'Abel', 'EABEL', '011.44.1644.429267', '1987-08-30', 'SA\_REP', '11000.00', '0.30', '149', '80'),('175', 'Alyssa', 'Hutton', 'AHUTTON', '011.44.1644.429266', '1987-08-31', 'SA\_REP', '8800.00', '0.25', '149', '80'),('176', 'Jonathon', 'Taylor', 'JTAYLOR', '011.44.1644.429265', '1987-09-01', 'SA\_REP', '8600.00', '0.20', '149', '80'),('177', 'Jack', 'Livingston', 'JLIVINGS', '011.44.1644.429264', '1987-09-02', 'SA\_REP', '8400.00', '0.20', '149', '80'),('178', 'Kimberely', 'Grant', 'KGRANT', '011.44.1644.429263', '1987-09-03', 'SA\_REP', '7000.00', '0.15', '149', '0'),('179', 'Charles', 'Johnson', 'CJOHNSON', '011.44.1644.429262', '1987-09-04', 'SA\_REP', '6200.00', '0.10', '149', '80'),('180', 'Winston', 'Taylor', 'WTAYLOR', '650.507.9876', '1987-09-05', 'SH\_CLERK', '3200.00', '0.00', '120', '50'),('181', 'Jean', 'Fleaur', 'JFLEAUR', '650.507.9877', '1987-09-06', 'SH\_CLERK', '3100.00', '0.00', '120', '50'),('182', 'Martha', 'Sullivan', 'MSULLIVA', '650.507.9878', '1987-09-07', 'SH\_CLERK', '2500.00', '0.00', '120', '50'),('183', 'Girard', 'Geoni', 'GGEONI', '650.507.9879', '1987-09-08', 'SH\_CLERK', '2800.00', '0.00', '120', '50'),('184', 'Nandita', 'Sarchand', 'NSARCHAN', '650.509.1876', '1987-09-09', 'SH\_CLERK', '4200.00', '0.00', '121', '50'),('185', 'Alexis', 'Bull', 'ABULL', '650.509.2876', '1987-09-10', 'SH\_CLERK', '4100.00', '0.00', '121', '50'),('186', 'Julia', 'Dellinger', 'JDELLING', '650.509.3876', '1987-09-11', 'SH\_CLERK', '3400.00', '0.00', '121', '50'),('187', 'Anthony', 'Cabrio', 'ACABRIO', '650.509.4876', '1987-09-12', 'SH\_CLERK', '3000.00', '0.00', '121', '50'),('188', 'Kelly', 'Chung', 'KCHUNG', '650.505.1876', '1987-09-13', 'SH\_CLERK', '3800.00', '0.00', '122', '50'),('189', 'Jennifer', 'Dilly', 'JDILLY', '650.505.2876', '1987-09-14', 'SH\_CLERK', '3600.00', '0.00', '122', '50'),('190', 'Timothy', 'Gates', 'TGATES', '650.505.3876', '1987-09-15', 'SH\_CLERK', '2900.00', '0.00', '122', '50'),('191', 'Randall', 'Perkins', 'RPERKINS', '650.505.4876', '1987-09-16', 'SH\_CLERK', '2500.00', '0.00', '122', '50'),('192', 'Sarah', 'Bell', 'SBELL', '650.501.1876', '1987-09-17', 'SH\_CLERK', '4000.00', '0.00', '123', '50'),('193', 'Britney', 'Everett', 'BEVERETT', '650.501.2876', '1987-09-18', 'SH\_CLERK', '3900.00', '0.00', '123', '50'),('194', 'Samuel', 'McCain', 'SMCCAIN', '650.501.3876', '1987-09-19', 'SH\_CLERK', '3200.00', '0.00', '123', '50'),('195', 'Vance', 'Jones', 'VJONES', '650.501.4876', '1987-09-20', 'SH\_CLERK', '2800.00', '0.00', '123', '50'),('196', 'Alana', 'Walsh', 'AWALSH', '650.507.9811', '1987-09-21', 'SH\_CLERK', '3100.00', '0.00', '124', '50'),('197', 'Kevin', 'Feeney', 'KFEENEY', '650.507.9822', '1987-09-22', 'SH\_CLERK', '3000.00', '0.00', '124', '50'),('198', 'Donald', 'OConnell', 'DOCONNEL', '650.507.9833', '1987-09-23', 'SH\_CLERK', '2600.00', '0.00', '124', '50'),('199', 'Douglas', 'Grant', 'DGRANT', '650.507.9844', '1987-09-24', 'SH\_CLERK', '2600.00', '0.00', '124', '50'),('200', 'Jennifer', 'Whalen', 'JWHALEN', '515.123.4444', '1987-09-25', 'AD\_ASST', '4400.00', '0.00', '101', '10'),('201', 'Michael', 'Hartstein', 'MHARTSTE', '515.123.5555', '1987-09-26', 'MK\_MAN', '13000.00', '0.00', '100', '20'),('202', 'Pat', 'Fay', 'PFAY', '603.123.6666', '1987-09-27', 'MK\_REP', '6000.00', '0.00', '201', '20'),('203', 'Susan', 'Mavris', 'SMAVRIS', '515.123.7777', '1987-09-28', 'HR\_REP', '6500.00', '0.00', '101', '40'),('204', 'Hermann', 'Baer', 'HBAER', '515.123.8888', '1987-09-29', 'PR\_REP', '10000.00', '0.00', '101', '70'),('205', 'Shelley', 'Higgins', 'SHIGGINS', '515.123.8080', '1987-09-30', 'AC\_MGR', '12000.00', '0.00', '101', '110'),('206', 'William', 'Gietz', 'WGIETZ', '515.123.8181', '1987-10-01', 'AC\_ACCOUNT', '8300.00', '0.00', '205', '110'); Query OK, 107 rows affected (0.00 sec) Records: 107 Duplicates: 0 Warnings: 0

MariaDB [test]> CREATE TABLE IF NOT EXISTS job\_history ( EMPLOYEE\_ID decimal(6,0) NOT NULL, START\_DATE date NOT NULL, END\_DATE date NOT NULL, JOB\_IDvarchar(10) NOT NULL, DEPARTMENT\_ID decimal(4,0) DEFAULT NULL, PRIMARY KEY (EMPLOYEE\_ID,START\_DATE), KEY JHIST\_DEPARTMENT\_IX (DEPARTMENT\_ID), KEY JHIST\_EMPLOYEE\_IX (EMPLOYEE\_ID), KEY JHIST\_JOB\_IX (JOB\_ID)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> INSERT INTO job\_history (EMPLOYEE\_ID, START\_DATE, END\_DATE, JOB\_ID, DEPARTMENT\_ID) VALUES('102', '1993-01-13', '1998-07-24', 'IT\_PROG', '60'),('101', '1989-09-21', '1993-10-27', 'AC\_ACCOUNT', '110'),('101', '1993-10-28', '1997-03-15', 'AC\_MGR', '110'),('201', '1996-02-17', '1999-12-19', 'MK\_REP', '20'),('114', '1998-03-24', '1999-12-31', 'ST\_CLERK', '50'),('122', '1999-01-01', '1999-12-31', 'ST\_CLERK', '50'),('200', '1987-09-17', '1993-06-17', 'AD\_ASST', '90'),('176', '1998-03-24', '1998-12-31', 'SA\_REP', '80'),('176', '1999-01-01', '1999-12-31', 'SA\_MAN', '80'),('200', '1994-07-01', '1998-12-31', 'AC\_ACCOUNT', '90'),('0', '0000-00-00', '0000-00-00', '', '0'); Query OK, 11 rows affected (0.00 sec) Records: 11 Duplicates: 0 Warnings: 0

MariaDB [test]> CREATE TABLE IF NOT EXISTS jobs ( JOB\_ID varchar(10) NOT NULL DEFAULT '', JOB\_TITLE varchar(35) NOT NULL, MIN\_SALARY decimal(6,0) DEFAULT NULL,MAX\_SALARY decimal(6,0) DEFAULT NULL, PRIMARY KEY (JOB\_ID)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.02 sec)

MariaDB [test]> INSERT INTO jobs (JOB\_ID, JOB\_TITLE, MIN\_SALARY, MAX\_SALARY) VALUES('AD\_PRES', 'President', '20000', '40000'),('AD\_VP', 'Administration Vice President', '15000', '30000'),('AD\_ASST', 'Administration Assistant', '3000', '6000'),('FI\_MGR', 'Finance Manager', '8200', '16000'),('FI\_ACCOUNT', 'Accountant', '4200', '9000'),('AC\_MGR', 'Accounting Manager', '8200', '16000'),('AC\_ACCOUNT', 'Public Accountant', '4200', '9000'),('SA\_MAN', 'Sales Manager', '10000', '20000'),('SA\_REP', 'Sales Representative', '6000', '12000'),('PU\_MAN', 'Purchasing Manager', '8000', '15000'),('PU\_CLERK', 'Purchasing Clerk', '2500', '5500'),('ST\_MAN', 'Stock Manager', '5500', '8500'),('ST\_CLERK', 'Stock Clerk', '2000', '5000'),('SH\_CLERK', 'Shipping Clerk', '2500', '5500'),('IT\_PROG', 'Programmer', '4000', '10000'),('MK\_MAN', 'Marketing Manager', '9000', '15000'),('MK\_REP', 'Marketing Representative', '4000', '9000'),('HR\_REP', 'Human Resources Representative', '4000', '9000'),('PR\_REP', 'Public Relations Representative', '4500', '10500'); Query OK, 19 rows affected (0.00 sec) Records: 19 Duplicates: 0 Warnings: 0

MariaDB [test]> CREATE TABLE IF NOT EXISTS locations ( LOCATION\_ID decimal(4,0) NOT NULL DEFAULT '0', STREET\_ADDRESS varchar(40) DEFAULT NULL, POSTAL\_CODEvarchar(12) DEFAULT NULL, CITY varchar(30) NOT NULL, STATE\_PROVINCE varchar(25) DEFAULT NULL, COUNTRY\_ID varchar(2) DEFAULT NULL, PRIMARY KEY (LOCATION\_ID), KEY LOC\_CITY\_IX (CITY), KEY LOC\_COUNTRY\_IX (COUNTRY\_ID), KEY LOC\_STATE\_PROVINCE\_IX (STATE\_PROVINCE)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> INSERT INTO locations (LOCATION\_ID, STREET\_ADDRESS, POSTAL\_CODE, CITY, STATE\_PROVINCE, COUNTRY\_ID) VALUES('1000', '1297 Via Cola di Rie', '989', 'Roma', '', 'IT'),('1100', '93091 Calle della Testa', '10934', 'Venice', '', 'IT'),('1200', '2017 Shinjuku-ku', '1689', 'Tokyo', 'Tokyo Prefecture', 'JP'),('1300', '9450 Kamiya-cho', '6823', 'Hiroshima', '', 'JP'),('1400', '2014 Jabberwocky Rd', '26192', 'Southlake', 'Texas', 'US'),('1500', '2011 Interiors Blvd', '99236', 'South San Francisco', 'California', 'US'),('1600', '2007 Zagora St', '50090', 'South Brunswick', 'New Jersey', 'US'),('1700', '2004 Charade Rd', '98199', 'Seattle', 'Washington', 'US'),('1800', '147 Spadina Ave', 'M5V 2L7', 'Toronto', 'Ontario', 'CA'),('1900', '6092 Boxwood St', 'YSW 9T2', 'Whitehorse', 'Yukon', 'CA'),('2000', '40-5-12 Laogianggen', '190518', 'Beijing', '', 'CN'),('2100', '1298 Vileparle (E)', '490231', 'Bombay', 'Maharashtra', 'IN'),('2200', '12-98 Victoria Street', '2901', 'Sydney', 'New South Wales', 'AU'),('2300', '198 Clementi North', '540198', 'Singapore', '', 'SG'),('2400', '8204 Arthur St', '', 'London', '', 'UK'),('2500', '"Magdalen Centre', ' The Oxford ', 'OX9 9ZB', 'Oxford', 'Ox'),('2600', '9702 Chester Road', '9629850293', 'Stretford', 'Manchester', 'UK'),('2700', 'Schwanthalerstr. 7031', '80925', 'Munich', 'Bavaria', 'DE'),('2800', 'Rua Frei Caneca 1360', '01307-002', 'Sao Paulo', 'Sao Paulo', 'BR'),('2900', '20 Rue des Corps-Saints', '1730', 'Geneva', 'Geneve', 'CH'),('3000', 'Murtenstrasse 921', '3095', 'Bern', 'BE', 'CH'),('3100', 'Pieter Breughelstraat 837', '3029SK', 'Utrecht', 'Utrecht', 'NL'),('3200', 'Mariano Escobedo 9991', '11932', 'Mexico City', '"Distrito Federal', '"'); Query OK, 23 rows affected (0.00 sec) Records: 23 Duplicates: 0 Warnings: 0

MariaDB [test]> CREATE TABLE IF NOT EXISTS regions ( REGION\_ID decimal(5,0) NOT NULL, REGION\_NAME varchar(25) DEFAULT NULL, PRIMARY KEY (REGION\_ID), UNIQUE KEY sss (REGION\_NAME)) ENGINE=MyISAM DEFAULT CHARSET=latin1; Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> INSERT INTO regions (REGION\_ID, REGION\_NAME) VALUES('1', 'Europe\r'),('2', 'Americas\r'),('3', 'Asia\r'),('4', 'Middle East and Africa\r'); Query OK, 4 rows affected (0.00 sec) Records: 4 Duplicates: 0 Warnings: 0

MariaDB [test]> select first\_name, last\_name, salary from employees where salary > (select salary from employees where last\_name="Bull"); +-------------+------------+----------+ | first\_name | last\_name | salary | +-------------+------------+----------+ | Steven | King | 24000.00 | | Neena | Kochhar | 17000.00 | | Lex | De Haan | 17000.00 | | Alexander | Hunold | 9000.00 | | Bruce | Ernst | 6000.00 | | David | Austin | 4800.00 | | Valli | Pataballa | 4800.00 | | Diana | Lorentz | 4200.00 | | Nancy | Greenberg | 12000.00 | | Daniel | Faviet | 9000.00 | | John | Chen | 8200.00 | | Ismael | Sciarra | 7700.00 | | Jose Manuel | Urman | 7800.00 | | Luis | Popp | 6900.00 | | Den | Raphaely | 11000.00 | | Matthew | Weiss | 8000.00 | | Adam | Fripp | 8200.00 | | Payam | Kaufling | 7900.00 | | Shanta | Vollman | 6500.00 | | Kevin | Mourgos | 5800.00 | | John | Russell | 14000.00 | | Karen | Partners | 13500.00 | | Alberto | Errazuriz | 12000.00 | | Gerald | Cambrault | 11000.00 | | Eleni | Zlotkey | 10500.00 | | Peter | Tucker | 10000.00 | | David | Bernstein | 9500.00 | | Peter | Hall | 9000.00 | | Christopher | Olsen | 8000.00 | | Nanette | Cambrault | 7500.00 | | Oliver | Tuvault | 7000.00 | | Janette | King | 10000.00 | | Patrick | Sully | 9500.00 | | Allan | McEwen | 9000.00 | | Lindsey | Smith | 8000.00 | | Louise | Doran | 7500.00 | | Sarath | Sewall | 7000.00 | | Clara | Vishney | 10500.00 | | Danielle | Greene | 9500.00 | | Mattea | Marvins | 7200.00 | | David | Lee | 6800.00 | | Sundar | Ande | 6400.00 | | Amit | Banda | 6200.00 | | Lisa | Ozer | 11500.00 | | Harrison | Bloom | 10000.00 | | Tayler | Fox | 9600.00 | | William | Smith | 7400.00 | | Elizabeth | Bates | 7300.00 | | Sundita | Kumar | 6100.00 | | Ellen | Abel | 11000.00 | | Alyssa | Hutton | 8800.00 | | Jonathon | Taylor | 8600.00 | | Jack | Livingston | 8400.00 | | Kimberely | Grant | 7000.00 | | Charles | Johnson | 6200.00 | | Nandita | Sarchand | 4200.00 | | Jennifer | Whalen | 4400.00 | | Michael | Hartstein | 13000.00 | | Pat | Fay | 6000.00 | | Susan | Mavris | 6500.00 | | Hermann | Baer | 10000.00 | | Shelley | Higgins | 12000.00 | | William | Gietz | 8300.00 | +-------------+------------+----------+ 63 rows in set (0.02 sec)

MariaDB [test]> select first\_name, last\_name salary from employees where salary =(select salary from employees where last\_name = "Johnson"); +------------+---------+ | first\_name | salary | +------------+---------+ | Amit | Banda | | Charles | Johnson | +------------+---------+ 2 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, salary from employees where salary =(select salary from employees where last\_name = "Johnson"); +------------+-----------+---------+ | first\_name | last\_name | salary | +------------+-----------+---------+ | Amit | Banda | 6200.00 | | Charles | Johnson | 6200.00 | +------------+-----------+---------+ 2 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name from employees where department\_id = 60; +------------+-----------+ | first\_name | last\_name | +------------+-----------+ | Alexander | Hunold | | Bruce | Ernst | | David | Austin | | Valli | Pataballa | | Diana | Lorentz | +------------+-----------+ 5 rows in set (0.00 sec)

MariaDB [test]> select department\_id from departments where department\_name = 'IT'; +---------------+ | department\_id | +---------------+ | 60 | +---------------+ 1 row in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name from employees where department\_id = (select department\_id from departments where department\_name = 'IT'); +------------+-----------+ | first\_name | last\_name | +------------+-----------+ | Alexander | Hunold | | Bruce | Ernst | | David | Austin | | Valli | Pataballa | | Diana | Lorentz | +------------+-----------+ 5 rows in set (0.00 sec)

MariaDB [test]> select max(salary) from employees where department\_id =(select department\_id from departments where department\_name = 'IT'); +-------------+ | max(salary) | +-------------+ | 9000.00 | +-------------+ 1 row in set (0.00 sec)

MariaDB [test]> select\* from employees -> ; +-------------+-------------+-------------+----------+--------------------+------------+------------+----------+----------------+------------+---------------+ | EMPLOYEE\_ID | FIRST\_NAME | LAST\_NAME | EMAIL | PHONE\_NUMBER | HIRE\_DATE | JOB\_ID | SALARY | COMMISSION\_PCT | MANAGER\_ID | DEPARTMENT\_ID | +-------------+-------------+-------------+----------+--------------------+------------+------------+----------+----------------+------------+---------------+ | 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD\_PRES | 24000.00 | 0.00 | 0 | 90 | | 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD\_VP | 17000.00 | 0.00 | 100 | 90 | | 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD\_VP | 17000.00 | 0.00 | 100 | 90 | | 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT\_PROG | 9000.00 | 0.00 | 102 | 60 | | 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT\_PROG | 6000.00 | 0.00 | 103 | 60 | | 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT\_PROG | 4800.00 | 0.00 | 103 | 60 | | 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT\_PROG | 4800.00 | 0.00 | 103 | 60 | | 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT\_PROG | 4200.00 | 0.00 | 103 | 60 | | 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1987-06-25 | FI\_MGR | 12000.00 | 0.00 | 101 | 100 | | 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1987-06-26 | FI\_ACCOUNT | 9000.00 | 0.00 | 108 | 100 | | 110 | John | Chen | JCHEN | 515.124.4269 | 1987-06-27 | FI\_ACCOUNT | 8200.00 | 0.00 | 108 | 100 | | 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1987-06-28 | FI\_ACCOUNT | 7700.00 | 0.00 | 108 | 100 | | 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1987-06-29 | FI\_ACCOUNT | 7800.00 | 0.00 | 108 | 100 | | 113 | Luis | Popp | LPOPP | 515.124.4567 | 1987-06-30 | FI\_ACCOUNT | 6900.00 | 0.00 | 108 | 100 | | 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1987-07-01 | PU\_MAN | 11000.00 | 0.00 | 100 | 30 | | 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1987-07-02 | PU\_CLERK | 3100.00 | 0.00 | 114 | 30 | | 116 | Shelli | Baida | SBAIDA | 515.127.4563 | 1987-07-03 | PU\_CLERK | 2900.00 | 0.00 | 114 | 30 | | 117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 1987-07-04 | PU\_CLERK | 2800.00 | 0.00 | 114 | 30 | | 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1987-07-05 | PU\_CLERK | 2600.00 | 0.00 | 114 | 30 | | 119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1987-07-06 | PU\_CLERK | 2500.00 | 0.00 | 114 | 30 | | 120 | Matthew | Weiss | MWEISS | 650.123.1234 | 1987-07-07 | ST\_MAN | 8000.00 | 0.00 | 100 | 50 | | 121 | Adam | Fripp | AFRIPP | 650.123.2234 | 1987-07-08 | ST\_MAN | 8200.00 | 0.00 | 100 | 50 | | 122 | Payam | Kaufling | PKAUFLIN | 650.123.3234 | 1987-07-09 | ST\_MAN | 7900.00 | 0.00 | 100 | 50 | | 123 | Shanta | Vollman | SVOLLMAN | 650.123.4234 | 1987-07-10 | ST\_MAN | 6500.00 | 0.00 | 100 | 50 | | 124 | Kevin | Mourgos | KMOURGOS | 650.123.5234 | 1987-07-11 | ST\_MAN | 5800.00 | 0.00 | 100 | 50 | | 125 | Julia | Nayer | JNAYER | 650.124.1214 | 1987-07-12 | ST\_CLERK | 3200.00 | 0.00 | 120 | 50 | | 126 | Irene | Mikkilineni | IMIKKILI | 650.124.1224 | 1987-07-13 | ST\_CLERK | 2700.00 | 0.00 | 120 | 50 | | 127 | James | Landry | JLANDRY | 650.124.1334 | 1987-07-14 | ST\_CLERK | 2400.00 | 0.00 | 120 | 50 | | 128 | Steven | Markle | SMARKLE | 650.124.1434 | 1987-07-15 | ST\_CLERK | 2200.00 | 0.00 | 120 | 50 | | 129 | Laura | Bissot | LBISSOT | 650.124.5234 | 1987-07-16 | ST\_CLERK | 3300.00 | 0.00 | 121 | 50 | | 130 | Mozhe | Atkinson | MATKINSO | 650.124.6234 | 1987-07-17 | ST\_CLERK | 2800.00 | 0.00 | 121 | 50 | | 131 | James | Marlow | JAMRLOW | 650.124.7234 | 1987-07-18 | ST\_CLERK | 2500.00 | 0.00 | 121 | 50 | | 132 | TJ | Olson | TJOLSON | 650.124.8234 | 1987-07-19 | ST\_CLERK | 2100.00 | 0.00 | 121 | 50 | | 133 | Jason | Mallin | JMALLIN | 650.127.1934 | 1987-07-20 | ST\_CLERK | 3300.00 | 0.00 | 122 | 50 | | 134 | Michael | Rogers | MROGERS | 650.127.1834 | 1987-07-21 | ST\_CLERK | 2900.00 | 0.00 | 122 | 50 | | 135 | Ki | Gee | KGEE | 650.127.1734 | 1987-07-22 | ST\_CLERK | 2400.00 | 0.00 | 122 | 50 | | 136 | Hazel | Philtanker | HPHILTAN | 650.127.1634 | 1987-07-23 | ST\_CLERK | 2200.00 | 0.00 | 122 | 50 | | 137 | Renske | Ladwig | RLADWIG | 650.121.1234 | 1987-07-24 | ST\_CLERK | 3600.00 | 0.00 | 123 | 50 | | 138 | Stephen | Stiles | SSTILES | 650.121.2034 | 1987-07-25 | ST\_CLERK | 3200.00 | 0.00 | 123 | 50 | | 139 | John | Seo | JSEO | 650.121.2019 | 1987-07-26 | ST\_CLERK | 2700.00 | 0.00 | 123 | 50 | | 140 | Joshua | Patel | JPATEL | 650.121.1834 | 1987-07-27 | ST\_CLERK | 2500.00 | 0.00 | 123 | 50 | | 141 | Trenna | Rajs | TRAJS | 650.121.8009 | 1987-07-28 | ST\_CLERK | 3500.00 | 0.00 | 124 | 50 | | 142 | Curtis | Davies | CDAVIES | 650.121.2994 | 1987-07-29 | ST\_CLERK | 3100.00 | 0.00 | 124 | 50 | | 143 | Randall | Matos | RMATOS | 650.121.2874 | 1987-07-30 | ST\_CLERK | 2600.00 | 0.00 | 124 | 50 | | 144 | Peter | Vargas | PVARGAS | 650.121.2004 | 1987-07-31 | ST\_CLERK | 2500.00 | 0.00 | 124 | 50 | | 145 | John | Russell | JRUSSEL | 011.44.1344.429268 | 1987-08-01 | SA\_MAN | 14000.00 | 0.40 | 100 | 80 | | 146 | Karen | Partners | KPARTNER | 011.44.1344.467268 | 1987-08-02 | SA\_MAN | 13500.00 | 0.30 | 100 | 80 | | 147 | Alberto | Errazuriz | AERRAZUR | 011.44.1344.429278 | 1987-08-03 | SA\_MAN | 12000.00 | 0.30 | 100 | 80 | | 148 | Gerald | Cambrault | GCAMBRAU | 011.44.1344.619268 | 1987-08-04 | SA\_MAN | 11000.00 | 0.30 | 100 | 80 | | 149 | Eleni | Zlotkey | EZLOTKEY | 011.44.1344.429018 | 1987-08-05 | SA\_MAN | 10500.00 | 0.20 | 100 | 80 | | 150 | Peter | Tucker | PTUCKER | 011.44.1344.129268 | 1987-08-06 | SA\_REP | 10000.00 | 0.30 | 145 | 80 | | 151 | David | Bernstein | DBERNSTE | 011.44.1344.345268 | 1987-08-07 | SA\_REP | 9500.00 | 0.25 | 145 | 80 | | 152 | Peter | Hall | PHALL | 011.44.1344.478968 | 1987-08-08 | SA\_REP | 9000.00 | 0.25 | 145 | 80 | | 153 | Christopher | Olsen | COLSEN | 011.44.1344.498718 | 1987-08-09 | SA\_REP | 8000.00 | 0.20 | 145 | 80 | | 154 | Nanette | Cambrault | NCAMBRAU | 011.44.1344.987668 | 1987-08-10 | SA\_REP | 7500.00 | 0.20 | 145 | 80 | | 155 | Oliver | Tuvault | OTUVAULT | 011.44.1344.486508 | 1987-08-11 | SA\_REP | 7000.00 | 0.15 | 145 | 80 | | 156 | Janette | King | JKING | 011.44.1345.429268 | 1987-08-12 | SA\_REP | 10000.00 | 0.35 | 146 | 80 | | 157 | Patrick | Sully | PSULLY | 011.44.1345.929268 | 1987-08-13 | SA\_REP | 9500.00 | 0.35 | 146 | 80 | | 158 | Allan | McEwen | AMCEWEN | 011.44.1345.829268 | 1987-08-14 | SA\_REP | 9000.00 | 0.35 | 146 | 80 | | 159 | Lindsey | Smith | LSMITH | 011.44.1345.729268 | 1987-08-15 | SA\_REP | 8000.00 | 0.30 | 146 | 80 | | 160 | Louise | Doran | LDORAN | 011.44.1345.629268 | 1987-08-16 | SA\_REP | 7500.00 | 0.30 | 146 | 80 | | 161 | Sarath | Sewall | SSEWALL | 011.44.1345.529268 | 1987-08-17 | SA\_REP | 7000.00 | 0.25 | 146 | 80 | | 162 | Clara | Vishney | CVISHNEY | 011.44.1346.129268 | 1987-08-18 | SA\_REP | 10500.00 | 0.25 | 147 | 80 | | 163 | Danielle | Greene | DGREENE | 011.44.1346.229268 | 1987-08-19 | SA\_REP | 9500.00 | 0.15 | 147 | 80 | | 164 | Mattea | Marvins | MMARVINS | 011.44.1346.329268 | 1987-08-20 | SA\_REP | 7200.00 | 0.10 | 147 | 80 | | 165 | David | Lee | DLEE | 011.44.1346.529268 | 1987-08-21 | SA\_REP | 6800.00 | 0.10 | 147 | 80 | | 166 | Sundar | Ande | SANDE | 011.44.1346.629268 | 1987-08-22 | SA\_REP | 6400.00 | 0.10 | 147 | 80 | | 167 | Amit | Banda | ABANDA | 011.44.1346.729268 | 1987-08-23 | SA\_REP | 6200.00 | 0.10 | 147 | 80 | | 168 | Lisa | Ozer | LOZER | 011.44.1343.929268 | 1987-08-24 | SA\_REP | 11500.00 | 0.25 | 148 | 80 | | 169 | Harrison | Bloom | HBLOOM | 011.44.1343.829268 | 1987-08-25 | SA\_REP | 10000.00 | 0.20 | 148 | 80 | | 170 | Tayler | Fox | TFOX | 011.44.1343.729268 | 1987-08-26 | SA\_REP | 9600.00 | 0.20 | 148 | 80 | | 171 | William | Smith | WSMITH | 011.44.1343.629268 | 1987-08-27 | SA\_REP | 7400.00 | 0.15 | 148 | 80 | | 172 | Elizabeth | Bates | EBATES | 011.44.1343.529268 | 1987-08-28 | SA\_REP | 7300.00 | 0.15 | 148 | 80 | | 173 | Sundita | Kumar | SKUMAR | 011.44.1343.329268 | 1987-08-29 | SA\_REP | 6100.00 | 0.10 | 148 | 80 | | 174 | Ellen | Abel | EABEL | 011.44.1644.429267 | 1987-08-30 | SA\_REP | 11000.00 | 0.30 | 149 | 80 | | 175 | Alyssa | Hutton | AHUTTON | 011.44.1644.429266 | 1987-08-31 | SA\_REP | 8800.00 | 0.25 | 149 | 80 | | 176 | Jonathon | Taylor | JTAYLOR | 011.44.1644.429265 | 1987-09-01 | SA\_REP | 8600.00 | 0.20 | 149 | 80 | | 177 | Jack | Livingston | JLIVINGS | 011.44.1644.429264 | 1987-09-02 | SA\_REP | 8400.00 | 0.20 | 149 | 80 | | 178 | Kimberely | Grant | KGRANT | 011.44.1644.429263 | 1987-09-03 | SA\_REP | 7000.00 | 0.15 | 149 | 0 | | 179 | Charles | Johnson | CJOHNSON | 011.44.1644.429262 | 1987-09-04 | SA\_REP | 6200.00 | 0.10 | 149 | 80 | | 180 | Winston | Taylor | WTAYLOR | 650.507.9876 | 1987-09-05 | SH\_CLERK | 3200.00 | 0.00 | 120 | 50 | | 181 | Jean | Fleaur | JFLEAUR | 650.507.9877 | 1987-09-06 | SH\_CLERK | 3100.00 | 0.00 | 120 | 50 | | 182 | Martha | Sullivan | MSULLIVA | 650.507.9878 | 1987-09-07 | SH\_CLERK | 2500.00 | 0.00 | 120 | 50 | | 183 | Girard | Geoni | GGEONI | 650.507.9879 | 1987-09-08 | SH\_CLERK | 2800.00 | 0.00 | 120 | 50 | | 184 | Nandita | Sarchand | NSARCHAN | 650.509.1876 | 1987-09-09 | SH\_CLERK | 4200.00 | 0.00 | 121 | 50 | | 185 | Alexis | Bull | ABULL | 650.509.2876 | 1987-09-10 | SH\_CLERK | 4100.00 | 0.00 | 121 | 50 | | 186 | Julia | Dellinger | JDELLING | 650.509.3876 | 1987-09-11 | SH\_CLERK | 3400.00 | 0.00 | 121 | 50 | | 187 | Anthony | Cabrio | ACABRIO | 650.509.4876 | 1987-09-12 | SH\_CLERK | 3000.00 | 0.00 | 121 | 50 | | 188 | Kelly | Chung | KCHUNG | 650.505.1876 | 1987-09-13 | SH\_CLERK | 3800.00 | 0.00 | 122 | 50 | | 189 | Jennifer | Dilly | JDILLY | 650.505.2876 | 1987-09-14 | SH\_CLERK | 3600.00 | 0.00 | 122 | 50 | | 190 | Timothy | Gates | TGATES | 650.505.3876 | 1987-09-15 | SH\_CLERK | 2900.00 | 0.00 | 122 | 50 | | 191 | Randall | Perkins | RPERKINS | 650.505.4876 | 1987-09-16 | SH\_CLERK | 2500.00 | 0.00 | 122 | 50 | | 192 | Sarah | Bell | SBELL | 650.501.1876 | 1987-09-17 | SH\_CLERK | 4000.00 | 0.00 | 123 | 50 | | 193 | Britney | Everett | BEVERETT | 650.501.2876 | 1987-09-18 | SH\_CLERK | 3900.00 | 0.00 | 123 | 50 | | 194 | Samuel | McCain | SMCCAIN | 650.501.3876 | 1987-09-19 | SH\_CLERK | 3200.00 | 0.00 | 123 | 50 | | 195 | Vance | Jones | VJONES | 650.501.4876 | 1987-09-20 | SH\_CLERK | 2800.00 | 0.00 | 123 | 50 | | 196 | Alana | Walsh | AWALSH | 650.507.9811 | 1987-09-21 | SH\_CLERK | 3100.00 | 0.00 | 124 | 50 | | 197 | Kevin | Feeney | KFEENEY | 650.507.9822 | 1987-09-22 | SH\_CLERK | 3000.00 | 0.00 | 124 | 50 | | 198 | Donald | OConnell | DOCONNEL | 650.507.9833 | 1987-09-23 | SH\_CLERK | 2600.00 | 0.00 | 124 | 50 | | 199 | Douglas | Grant | DGRANT | 650.507.9844 | 1987-09-24 | SH\_CLERK | 2600.00 | 0.00 | 124 | 50 | | 200 | Jennifer | Whalen | JWHALEN | 515.123.4444 | 1987-09-25 | AD\_ASST | 4400.00 | 0.00 | 101 | 10 | | 201 | Michael | Hartstein | MHARTSTE | 515.123.5555 | 1987-09-26 | MK\_MAN | 13000.00 | 0.00 | 100 | 20 | | 202 | Pat | Fay | PFAY | 603.123.6666 | 1987-09-27 | MK\_REP | 6000.00 | 0.00 | 201 | 20 | | 203 | Susan | Mavris | SMAVRIS | 515.123.7777 | 1987-09-28 | HR\_REP | 6500.00 | 0.00 | 101 | 40 | | 204 | Hermann | Baer | HBAER | 515.123.8888 | 1987-09-29 | PR\_REP | 10000.00 | 0.00 | 101 | 70 | | 205 | Shelley | Higgins | SHIGGINS | 515.123.8080 | 1987-09-30 | AC\_MGR | 12000.00 | 0.00 | 101 | 110 | | 206 | William | Gietz | WGIETZ | 515.123.8181 | 1987-10-01 | AC\_ACCOUNT | 8300.00 | 0.00 | 205 | 110 | +-------------+-------------+-------------+----------+--------------------+------------+------------+----------+----------------+------------+---------------+ 107 rows in set (0.00 sec)

MariaDB [test]> desc employees; +----------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +----------------+--------------+------+-----+---------+-------+ | EMPLOYEE\_ID | decimal(6,0) | NO | PRI | 0 | | | FIRST\_NAME | varchar(20) | YES | | NULL | | | LAST\_NAME | varchar(25) | NO | MUL | NULL | | | EMAIL | varchar(25) | NO | UNI | NULL | | | PHONE\_NUMBER | varchar(20) | YES | | NULL | | | HIRE\_DATE | date | NO | | NULL | | | JOB\_ID | varchar(10) | NO | MUL | NULL | | | SALARY | decimal(8,2) | YES | | NULL | | | COMMISSION\_PCT | decimal(2,2) | YES | | NULL | | | MANAGER\_ID | decimal(6,0) | YES | MUL | NULL | | | DEPARTMENT\_ID | decimal(4,0) | YES | MUL | NULL | | +----------------+--------------+------+-----+---------+-------+ 11 rows in set (0.00 sec)

MariaDB [test]> desc departments; +-----------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +-----------------+--------------+------+-----+---------+-------+ | DEPARTMENT\_ID | decimal(4,0) | NO | PRI | 0 | | | DEPARTMENT\_NAME | varchar(30) | NO | | NULL | | | MANAGER\_ID | decimal(6,0) | YES | MUL | NULL | | | LOCATION\_ID | decimal(4,0) | YES | MUL | NULL | | +-----------------+--------------+------+-----+---------+-------+ 4 rows in set (0.00 sec)

MariaDB [test]> desc locations; +----------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +----------------+--------------+------+-----+---------+-------+ | LOCATION\_ID | decimal(4,0) | NO | PRI | 0 | | | STREET\_ADDRESS | varchar(40) | YES | | NULL | | | POSTAL\_CODE | varchar(12) | YES | | NULL | | | CITY | varchar(30) | NO | MUL | NULL | | | STATE\_PROVINCE | varchar(25) | YES | MUL | NULL | | | COUNTRY\_ID | varchar(2) | YES | MUL | NULL | | +----------------+--------------+------+-----+---------+-------+ 6 rows in set (0.01 sec)

MariaDB [test]> select country\_id from locations; +------------+ | country\_id | +------------+ | " | | AU | | BR | | CA | | CA | | CH | | CH | | CN | | DE | | IN | | IT | | IT | | JP | | JP | | NL | | Ox | | SG | | UK | | UK | | US | | US | | US | | US | +------------+ 23 rows in set (0.00 sec)

MariaDB [test]> select country\_id from locations where country\_id = US'; '> ; '> ' -> ' '> ' -> ; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''; ; ' ' '' at line 1 MariaDB [test]> SELECT COUNTRY\_ID FROM LOCATIONS WHERE COUNTRY\_ID ='US'; +------------+ | COUNTRY\_ID | +------------+ | US | | US | | US | | US | +------------+ 4 rows in set (0.00 sec)

MariaDB [test]> SELECT department\_id from departments where location\_id in (select location\_id from locations where country\_id ='us'; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1 MariaDB [test]> SELECT department\_id from departments where location\_id in (select location\_id from locations where country\_id ='us'); +---------------+ | department\_id | +---------------+ | 60 | | 50 | | 10 | | 30 | | 90 | | 100 | | 110 | | 120 | | 130 | | 140 | | 150 | | 160 | | 170 | | 180 | | 190 | | 200 | | 210 | | 220 | | 230 | | 240 | | 250 | | 260 | | 270 | +---------------+ 23 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, department\_id from employees where department\_id in (SELECT department\_id from departments where location\_id in (select location\_id from locations where country\_id ='us')); +-------------+-------------+---------------+ | first\_name | last\_name | department\_id | +-------------+-------------+---------------+ | Alexander | Hunold | 60 | | Bruce | Ernst | 60 | | David | Austin | 60 | | Valli | Pataballa | 60 | | Diana | Lorentz | 60 | | Matthew | Weiss | 50 | | Adam | Fripp | 50 | | Payam | Kaufling | 50 | | Shanta | Vollman | 50 | | Kevin | Mourgos | 50 | | Julia | Nayer | 50 | | Irene | Mikkilineni | 50 | | James | Landry | 50 | | Steven | Markle | 50 | | Laura | Bissot | 50 | | Mozhe | Atkinson | 50 | | James | Marlow | 50 | | TJ | Olson | 50 | | Jason | Mallin | 50 | | Michael | Rogers | 50 | | Ki | Gee | 50 | | Hazel | Philtanker | 50 | | Renske | Ladwig | 50 | | Stephen | Stiles | 50 | | John | Seo | 50 | | Joshua | Patel | 50 | | Trenna | Rajs | 50 | | Curtis | Davies | 50 | | Randall | Matos | 50 | | Peter | Vargas | 50 | | Winston | Taylor | 50 | | Jean | Fleaur | 50 | | Martha | Sullivan | 50 | | Girard | Geoni | 50 | | Nandita | Sarchand | 50 | | Alexis | Bull | 50 | | Julia | Dellinger | 50 | | Anthony | Cabrio | 50 | | Kelly | Chung | 50 | | Jennifer | Dilly | 50 | | Timothy | Gates | 50 | | Randall | Perkins | 50 | | Sarah | Bell | 50 | | Britney | Everett | 50 | | Samuel | McCain | 50 | | Vance | Jones | 50 | | Alana | Walsh | 50 | | Kevin | Feeney | 50 | | Donald | OConnell | 50 | | Douglas | Grant | 50 | | Jennifer | Whalen | 10 | | Den | Raphaely | 30 | | Alexander | Khoo | 30 | | Shelli | Baida | 30 | | Sigal | Tobias | 30 | | Guy | Himuro | 30 | | Karen | Colmenares | 30 | | Steven | King | 90 | | Neena | Kochhar | 90 | | Lex | De Haan | 90 | | Nancy | Greenberg | 100 | | Daniel | Faviet | 100 | | John | Chen | 100 | | Ismael | Sciarra | 100 | | Jose Manuel | Urman | 100 | | Luis | Popp | 100 | | Shelley | Higgins | 110 | | William | Gietz | 110 | +-------------+-------------+---------------+ 68 rows in set (0.01 sec)

MariaDB [test]> desc employes; ERROR 1146 (42S02): Table 'test.employes' doesn't exist MariaDB [test]> desc employees -> ; +----------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +----------------+--------------+------+-----+---------+-------+ | EMPLOYEE\_ID | decimal(6,0) | NO | PRI | 0 | | | FIRST\_NAME | varchar(20) | YES | | NULL | | | LAST\_NAME | varchar(25) | NO | MUL | NULL | | | EMAIL | varchar(25) | NO | UNI | NULL | | | PHONE\_NUMBER | varchar(20) | YES | | NULL | | | HIRE\_DATE | date | NO | | NULL | | | JOB\_ID | varchar(10) | NO | MUL | NULL | | | SALARY | decimal(8,2) | YES | | NULL | | | COMMISSION\_PCT | decimal(2,2) | YES | | NULL | | | MANAGER\_ID | decimal(6,0) | YES | MUL | NULL | | | DEPARTMENT\_ID | decimal(4,0) | YES | MUL | NULL | | +----------------+--------------+------+-----+---------+-------+ 11 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, from employees -> WHERE manager\_id in -> (select employee\_id FROM employees -> WHERE department\_id -> IN (SELECT department\_id -> FROM departments WHERE location\_id -> IN (SELECT location\_id FROM locations WHERE country\_id='us'))); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'from employees WHERE manager\_id in (select employee\_id FROM employees WHERE dep' at line 1 MariaDB [test]> select first\_name, last\_name from employees -> WHERE manager\_id in -> (select employee\_id FROM employees -> WHERE department\_id -> IN (SELECT department\_id -> FROM departments WHERE location\_id -> IN (SELECT location\_id FROM locations WHERE country\_id='us'))); +-------------+-------------+ | first\_name | last\_name | +-------------+-------------+ | Neena | Kochhar | | Lex | De Haan | | Alexander | Hunold | | Bruce | Ernst | | David | Austin | | Valli | Pataballa | | Diana | Lorentz | | Nancy | Greenberg | | Daniel | Faviet | | John | Chen | | Ismael | Sciarra | | Jose Manuel | Urman | | Luis | Popp | | Den | Raphaely | | Alexander | Khoo | | Shelli | Baida | | Sigal | Tobias | | Guy | Himuro | | Karen | Colmenares | | Matthew | Weiss | | Adam | Fripp | | Payam | Kaufling | | Shanta | Vollman | | Kevin | Mourgos | | Julia | Nayer | | Irene | Mikkilineni | | James | Landry | | Steven | Markle | | Laura | Bissot | | Mozhe | Atkinson | | James | Marlow | | TJ | Olson | | Jason | Mallin | | Michael | Rogers | | Ki | Gee | | Hazel | Philtanker | | Renske | Ladwig | | Stephen | Stiles | | John | Seo | | Joshua | Patel | | Trenna | Rajs | | Curtis | Davies | | Randall | Matos | | Peter | Vargas | | John | Russell | | Karen | Partners | | Alberto | Errazuriz | | Gerald | Cambrault | | Eleni | Zlotkey | | Winston | Taylor | | Jean | Fleaur | | Martha | Sullivan | | Girard | Geoni | | Nandita | Sarchand | | Alexis | Bull | | Julia | Dellinger | | Anthony | Cabrio | | Kelly | Chung | | Jennifer | Dilly | | Timothy | Gates | | Randall | Perkins | | Sarah | Bell | | Britney | Everett | | Samuel | McCain | | Vance | Jones | | Alana | Walsh | | Kevin | Feeney | | Donald | OConnell | | Douglas | Grant | | Jennifer | Whalen | | Michael | Hartstein | | Susan | Mavris | | Hermann | Baer | | Shelley | Higgins | | William | Gietz | +-------------+-------------+ 75 rows in set (0.00 sec)

MariaDB [test]> desc employees; +----------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +----------------+--------------+------+-----+---------+-------+ | EMPLOYEE\_ID | decimal(6,0) | NO | PRI | 0 | | | FIRST\_NAME | varchar(20) | YES | | NULL | | | LAST\_NAME | varchar(25) | NO | MUL | NULL | | | EMAIL | varchar(25) | NO | UNI | NULL | | | PHONE\_NUMBER | varchar(20) | YES | | NULL | | | HIRE\_DATE | date | NO | | NULL | | | JOB\_ID | varchar(10) | NO | MUL | NULL | | | SALARY | decimal(8,2) | YES | | NULL | | | COMMISSION\_PCT | decimal(2,2) | YES | | NULL | | | MANAGER\_ID | decimal(6,0) | YES | MUL | NULL | | | DEPARTMENT\_ID | decimal(4,0) | YES | MUL | NULL | | +----------------+--------------+------+-----+---------+-------+ 11 rows in set (0.00 sec)

MariaDB [test]> select manager\_id from employees; +------------+ | manager\_id | +------------+ | 0 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 101 | | 101 | | 101 | | 101 | | 101 | | 102 | | 103 | | 103 | | 103 | | 103 | | 108 | | 108 | | 108 | | 108 | | 108 | | 114 | | 114 | | 114 | | 114 | | 114 | | 120 | | 120 | | 120 | | 120 | | 120 | | 120 | | 120 | | 120 | | 121 | | 121 | | 121 | | 121 | | 121 | | 121 | | 121 | | 121 | | 122 | | 122 | | 122 | | 122 | | 122 | | 122 | | 122 | | 122 | | 123 | | 123 | | 123 | | 123 | | 123 | | 123 | | 123 | | 123 | | 124 | | 124 | | 124 | | 124 | | 124 | | 124 | | 124 | | 124 | | 145 | | 145 | | 145 | | 145 | | 145 | | 145 | | 146 | | 146 | | 146 | | 146 | | 146 | | 146 | | 147 | | 147 | | 147 | | 147 | | 147 | | 147 | | 148 | | 148 | | 148 | | 148 | | 148 | | 148 | | 149 | | 149 | | 149 | | 149 | | 149 | | 149 | | 201 | | 205 | +------------+ 107 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name from employees where employee\_id in (select manager\_id from employees\_; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1 MariaDB [test]> select first\_name, last\_name from employees where employee\_id in (select manager\_id from employees); +------------+-----------+ | first\_name | last\_name | +------------+-----------+ | Steven | King | | Neena | Kochhar | | Lex | De Haan | | Alexander | Hunold | | Nancy | Greenberg | | Den | Raphaely | | Matthew | Weiss | | Adam | Fripp | | Payam | Kaufling | | Shanta | Vollman | | Kevin | Mourgos | | John | Russell | | Karen | Partners | | Alberto | Errazuriz | | Gerald | Cambrault | | Eleni | Zlotkey | | Michael | Hartstein | | Shelley | Higgins | +------------+-----------+ 18 rows in set (0.00 sec)

MariaDB [test]> desc employees; +----------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +----------------+--------------+------+-----+---------+-------+ | EMPLOYEE\_ID | decimal(6,0) | NO | PRI | 0 | | | FIRST\_NAME | varchar(20) | YES | | NULL | | | LAST\_NAME | varchar(25) | NO | MUL | NULL | | | EMAIL | varchar(25) | NO | UNI | NULL | | | PHONE\_NUMBER | varchar(20) | YES | | NULL | | | HIRE\_DATE | date | NO | | NULL | | | JOB\_ID | varchar(10) | NO | MUL | NULL | | | SALARY | decimal(8,2) | YES | | NULL | | | COMMISSION\_PCT | decimal(2,2) | YES | | NULL | | | MANAGER\_ID | decimal(6,0) | YES | MUL | NULL | | | DEPARTMENT\_ID | decimal(4,0) | YES | MUL | NULL | | +----------------+--------------+------+-----+---------+-------+ 11 rows in set (0.00 sec)

MariaDB [test]> desc manager\_id; ERROR 1146 (42S02): Table 'test.manager\_id' doesn't exist MariaDB [test]> select first\_name, last\_name,employee\_id,manager\_id from employees where employee\_id in (select manager\_id from employees group by manager\_id); +------------+-----------+-------------+------------+ | first\_name | last\_name | employee\_id | manager\_id | +------------+-----------+-------------+------------+ | Steven | King | 100 | 0 | | Neena | Kochhar | 101 | 100 | | Lex | De Haan | 102 | 100 | | Alexander | Hunold | 103 | 102 | | Nancy | Greenberg | 108 | 101 | | Den | Raphaely | 114 | 100 | | Matthew | Weiss | 120 | 100 | | Adam | Fripp | 121 | 100 | | Payam | Kaufling | 122 | 100 | | Shanta | Vollman | 123 | 100 | | Kevin | Mourgos | 124 | 100 | | John | Russell | 145 | 100 | | Karen | Partners | 146 | 100 | | Alberto | Errazuriz | 147 | 100 | | Gerald | Cambrault | 148 | 100 | | Eleni | Zlotkey | 149 | 100 | | Michael | Hartstein | 201 | 100 | | Shelley | Higgins | 205 | 101 | +------------+-----------+-------------+------------+ 18 rows in set (0.00 sec)

MariaDB [test]> select average salary from employees; ERROR 1054 (42S22): Unknown column 'average' in 'field list' MariaDB [test]> select avg(salary -> ); ERROR 1054 (42S22): Unknown column 'salary' in 'field list' MariaDB [test]> select avg(salary) from employees; +-------------+ | avg(salary) | +-------------+ | 6461.682243 | +-------------+ 1 row in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, salary from employees where salary >(select avg(salary) from employees); +-------------+------------+----------+ | first\_name | last\_name | salary | +-------------+------------+----------+ | Steven | King | 24000.00 | | Neena | Kochhar | 17000.00 | | Lex | De Haan | 17000.00 | | Alexander | Hunold | 9000.00 | | Nancy | Greenberg | 12000.00 | | Daniel | Faviet | 9000.00 | | John | Chen | 8200.00 | | Ismael | Sciarra | 7700.00 | | Jose Manuel | Urman | 7800.00 | | Luis | Popp | 6900.00 | | Den | Raphaely | 11000.00 | | Matthew | Weiss | 8000.00 | | Adam | Fripp | 8200.00 | | Payam | Kaufling | 7900.00 | | Shanta | Vollman | 6500.00 | | John | Russell | 14000.00 | | Karen | Partners | 13500.00 | | Alberto | Errazuriz | 12000.00 | | Gerald | Cambrault | 11000.00 | | Eleni | Zlotkey | 10500.00 | | Peter | Tucker | 10000.00 | | David | Bernstein | 9500.00 | | Peter | Hall | 9000.00 | | Christopher | Olsen | 8000.00 | | Nanette | Cambrault | 7500.00 | | Oliver | Tuvault | 7000.00 | | Janette | King | 10000.00 | | Patrick | Sully | 9500.00 | | Allan | McEwen | 9000.00 | | Lindsey | Smith | 8000.00 | | Louise | Doran | 7500.00 | | Sarath | Sewall | 7000.00 | | Clara | Vishney | 10500.00 | | Danielle | Greene | 9500.00 | | Mattea | Marvins | 7200.00 | | David | Lee | 6800.00 | | Lisa | Ozer | 11500.00 | | Harrison | Bloom | 10000.00 | | Tayler | Fox | 9600.00 | | William | Smith | 7400.00 | | Elizabeth | Bates | 7300.00 | | Ellen | Abel | 11000.00 | | Alyssa | Hutton | 8800.00 | | Jonathon | Taylor | 8600.00 | | Jack | Livingston | 8400.00 | | Kimberely | Grant | 7000.00 | | Michael | Hartstein | 13000.00 | | Susan | Mavris | 6500.00 | | Hermann | Baer | 10000.00 | | Shelley | Higgins | 12000.00 | | William | Gietz | 8300.00 | +-------------+------------+----------+ 51 rows in set (0.01 sec)

MariaDB [test]> desc jobs; +------------+--------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +------------+--------------+------+-----+---------+-------+ | JOB\_ID | varchar(10) | NO | PRI | | | | JOB\_TITLE | varchar(35) | NO | | NULL | | | MIN\_SALARY | decimal(6,0) | YES | | NULL | | | MAX\_SALARY | decimal(6,0) | YES | | NULL | | +------------+--------------+------+-----+---------+-------+ 4 rows in set (0.01 sec)

MariaDB [test]> select min\_salary from jobs where employees.job\_id = jobs.job\_id; ERROR 1054 (42S22): Unknown column 'employees.job\_id' in 'where clause' MariaDB [test]> select first\_name, last\_name, salary -> FROM employees -> WHERE employees.salary = (select min\_salary -> FROM jobs -> WHERE jobs -> WHERE employees.job\_id = jobs.job\_id); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'WHERE employees.job\_id = jobs.job\_id)' at line 6 MariaDB [test]> select first\_name, last\_name, salary -> FROM employees -> WHERE employees.salary = (select min\_salary -> FROM jobs -> WHERE employees.job\_id = jobs.job\_id); +------------+------------+---------+ | first\_name | last\_name | salary | +------------+------------+---------+ | Karen | Colmenares | 2500.00 | | Martha | Sullivan | 2500.00 | | Randall | Perkins | 2500.00 | +------------+------------+---------+ 3 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, saalry from employees WHERE salary > (select salary from employees where last\_name = 'bell') order by first\_name; ERROR 1054 (42S22): Unknown column 'saalry' in 'field list' MariaDB [test]> select first\_name, last\_name, salary from employees WHERE salary > (select salary from employees where last\_name = 'bell') order by first\_name; +-------------+------------+----------+ | first\_name | last\_name | salary | +-------------+------------+----------+ | Adam | Fripp | 8200.00 | | Alberto | Errazuriz | 12000.00 | | Alexander | Hunold | 9000.00 | | Alexis | Bull | 4100.00 | | Allan | McEwen | 9000.00 | | Alyssa | Hutton | 8800.00 | | Amit | Banda | 6200.00 | | Bruce | Ernst | 6000.00 | | Charles | Johnson | 6200.00 | | Christopher | Olsen | 8000.00 | | Clara | Vishney | 10500.00 | | Daniel | Faviet | 9000.00 | | Danielle | Greene | 9500.00 | | David | Lee | 6800.00 | | David | Austin | 4800.00 | | David | Bernstein | 9500.00 | | Den | Raphaely | 11000.00 | | Diana | Lorentz | 4200.00 | | Eleni | Zlotkey | 10500.00 | | Elizabeth | Bates | 7300.00 | | Ellen | Abel | 11000.00 | | Gerald | Cambrault | 11000.00 | | Harrison | Bloom | 10000.00 | | Hermann | Baer | 10000.00 | | Ismael | Sciarra | 7700.00 | | Jack | Livingston | 8400.00 | | Janette | King | 10000.00 | | Jennifer | Whalen | 4400.00 | | John | Russell | 14000.00 | | John | Chen | 8200.00 | | Jonathon | Taylor | 8600.00 | | Jose Manuel | Urman | 7800.00 | | Karen | Partners | 13500.00 | | Kevin | Mourgos | 5800.00 | | Kimberely | Grant | 7000.00 | | Lex | De Haan | 17000.00 | | Lindsey | Smith | 8000.00 | | Lisa | Ozer | 11500.00 | | Louise | Doran | 7500.00 | | Luis | Popp | 6900.00 | | Mattea | Marvins | 7200.00 | | Matthew | Weiss | 8000.00 | | Michael | Hartstein | 13000.00 | | Nancy | Greenberg | 12000.00 | | Nandita | Sarchand | 4200.00 | | Nanette | Cambrault | 7500.00 | | Neena | Kochhar | 17000.00 | | Oliver | Tuvault | 7000.00 | | Pat | Fay | 6000.00 | | Patrick | Sully | 9500.00 | | Payam | Kaufling | 7900.00 | | Peter | Hall | 9000.00 | | Peter | Tucker | 10000.00 | | Sarath | Sewall | 7000.00 | | Shanta | Vollman | 6500.00 | | Shelley | Higgins | 12000.00 | | Steven | King | 24000.00 | | Sundar | Ande | 6400.00 | | Sundita | Kumar | 6100.00 | | Susan | Mavris | 6500.00 | | Tayler | Fox | 9600.00 | | Valli | Pataballa | 4800.00 | | William | Smith | 7400.00 | | William | Gietz | 8300.00 | +-------------+------------+----------+ 64 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name from employees where salary =( select min(salary from employees); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'from employees)' at line 1 MariaDB [test]> select first\_name, last\_name from employees where salary = (select min (salary) from employees); ERROR 1370 (42000): execute command denied to user ''@'localhost' for routine 'test.min' MariaDB [test]> select avg (salary) from employees ; +--------------+ | avg (salary) | +--------------+ | 6461.682243 | +--------------+ 1 row in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, salary from employees where salary> (select avg(salary) from employees group by department\_id); ERROR 1242 (21000): Subquery returns more than 1 row MariaDB [test]> select avg(salary) from employees group by department\_id); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ')' at line 1 MariaDB [test]> select avg(salary) from employees group by department\_id; +--------------+ | avg(salary) | +--------------+ | 7000.000000 | | 4400.000000 | | 9500.000000 | | 4150.000000 | | 6500.000000 | | 3475.555556 | | 5760.000000 | | 10000.000000 | | 8955.882353 | | 19333.333333 | | 8600.000000 | | 10150.000000 | +--------------+ 12 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, salary from employees where salary> (select avg(salary) from employees group by department\_id); ERROR 1242 (21000): Subquery returns more than 1 row MariaDB [test]> select first\_name, last\_name , salary -> from employees -> where salary> -> (select avg (salary) -> from employees -> group by department\_id); ERROR 1242 (21000): Subquery returns more than 1 row MariaDB [test]> select first\_name, last\_name, salary from employees where salary = all (select avg(salary) from employees group by department\_id); Empty set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, salary from employees where salary = all (select avg(salary) from employees group by department\_id); Empty set (0.00 sec)

MariaDB [test]> Empty set (0.00 sec)select first\_name, last\_name, salary from employees where salary = any (select avg(salary) from employees group by department\_id); ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Empty set (0.00 sec)select first\_name, last\_name, salary from employees where sa' at line 1 MariaDB [test]> select first\_name, last\_name, salary from employees where salary = any (select avg(salary) from employees group by department\_id); +------------+-----------+----------+ | first\_name | last\_name | salary | +------------+-----------+----------+ | Shanta | Vollman | 6500.00 | | Peter | Tucker | 10000.00 | | David | Bernstein | 9500.00 | | Oliver | Tuvault | 7000.00 | | Janette | King | 10000.00 | | Patrick | Sully | 9500.00 | | Sarath | Sewall | 7000.00 | | Danielle | Greene | 9500.00 | | Harrison | Bloom | 10000.00 | | Jonathon | Taylor | 8600.00 | | Kimberely | Grant | 7000.00 | | Jennifer | Whalen | 4400.00 | | Susan | Mavris | 6500.00 | | Hermann | Baer | 10000.00 | +------------+-----------+----------+ 14 rows in set (0.00 sec)

MariaDB [test]> desc jobs; ERROR 1030 (HY000): Got error 22 "Invalid argument" from storage engine Aria MariaDB [test]> select \* from jobs; +------------+---------------------------------+------------+------------+ | JOB\_ID | JOB\_TITLE | MIN\_SALARY | MAX\_SALARY | +------------+---------------------------------+------------+------------+ | AD\_PRES | President | 20000 | 40000 | | AD\_VP | Administration Vice President | 15000 | 30000 | | AD\_ASST | Administration Assistant | 3000 | 6000 | | FI\_MGR | Finance Manager | 8200 | 16000 | | FI\_ACCOUNT | Accountant | 4200 | 9000 | | AC\_MGR | Accounting Manager | 8200 | 16000 | | AC\_ACCOUNT | Public Accountant | 4200 | 9000 | | SA\_MAN | Sales Manager | 10000 | 20000 | | SA\_REP | Sales Representative | 6000 | 12000 | | PU\_MAN | Purchasing Manager | 8000 | 15000 | | PU\_CLERK | Purchasing Clerk | 2500 | 5500 | | ST\_MAN | Stock Manager | 5500 | 8500 | | ST\_CLERK | Stock Clerk | 2000 | 5000 | | SH\_CLERK | Shipping Clerk | 2500 | 5500 | | IT\_PROG | Programmer | 4000 | 10000 | | MK\_MAN | Marketing Manager | 9000 | 15000 | | MK\_REP | Marketing Representative | 4000 | 9000 | | HR\_REP | Human Resources Representative | 4000 | 9000 | | PR\_REP | Public Relations Representative | 4500 | 10500 | +------------+---------------------------------+------------+------------+ 19 rows in set (0.00 sec)

MariaDB [test]> desc jobd; ERROR 1030 (HY000): Got error 22 "Invalid argument" from storage engine Aria MariaDB [test]> desc job\_id; ERROR 1030 (HY000): Got error 22 "Invalid argument" from storage engine Aria MariaDB [test]> desc salary; ERROR 1030 (HY000): Got error 22 "Invalid argument" from storage engine Aria MariaDB [test]> des salary; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'des salary' at line 1 MariaDB [test]> dec salary; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'dec salary' at line 1 MariaDB [test]> decs salary; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'decs salary' at line 1 MariaDB [test]> desc employees; ERROR 1030 (HY000): Got error 22 "Invalid argument" from storage engine Aria MariaDB [test]> select first\_name, last\_name, salary from employees where salary = all (select avg(salary) from employees group by department\_id); Empty set (0.00 sec)

MariaDB [test]> select first\_name, last\_nmae , job\_id, salary from employees where salary> -> all select salary from employees -> ; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'select salary from employees' at line 2 MariaDB [test]> select first\_name, last\_nmae , job\_id, salary from employees where sal -> ; ERROR 1054 (42S22): Unknown column 'last\_nmae' in 'field list' MariaDB [test]> SELECT b.first\_name,b.last\_name -> from employees b where not exists -> (select 'X' from employees a -> where a. manager\_id = b.employee\_id); +-------------+-------------+ | first\_name | last\_name | +-------------+-------------+ | Bruce | Ernst | | David | Austin | | Valli | Pataballa | | Diana | Lorentz | | Daniel | Faviet | | John | Chen | | Ismael | Sciarra | | Jose Manuel | Urman | | Luis | Popp | | Alexander | Khoo | | Shelli | Baida | | Sigal | Tobias | | Guy | Himuro | | Karen | Colmenares | | Julia | Nayer | | Irene | Mikkilineni | | James | Landry | | Steven | Markle | | Laura | Bissot | | Mozhe | Atkinson | | James | Marlow | | TJ | Olson | | Jason | Mallin | | Michael | Rogers | | Ki | Gee | | Hazel | Philtanker | | Renske | Ladwig | | Stephen | Stiles | | John | Seo | | Joshua | Patel | | Trenna | Rajs | | Curtis | Davies | | Randall | Matos | | Peter | Vargas | | Peter | Tucker | | David | Bernstein | | Peter | Hall | | Christopher | Olsen | | Nanette | Cambrault | | Oliver | Tuvault | | Janette | King | | Patrick | Sully | | Allan | McEwen | | Lindsey | Smith | | Louise | Doran | | Sarath | Sewall | | Clara | Vishney | | Danielle | Greene | | Mattea | Marvins | | David | Lee | | Sundar | Ande | | Amit | Banda | | Lisa | Ozer | | Harrison | Bloom | | Tayler | Fox | | William | Smith | | Elizabeth | Bates | | Sundita | Kumar | | Ellen | Abel | | Alyssa | Hutton | | Jonathon | Taylor | | Jack | Livingston | | Kimberely | Grant | | Charles | Johnson | | Winston | Taylor | | Jean | Fleaur | | Martha | Sullivan | | Girard | Geoni | | Nandita | Sarchand | | Alexis | Bull | | Julia | Dellinger | | Anthony | Cabrio | | Kelly | Chung | | Jennifer | Dilly | | Timothy | Gates | | Randall | Perkins | | Sarah | Bell | | Britney | Everett | | Samuel | McCain | | Vance | Jones | | Alana | Walsh | | Kevin | Feeney | | Donald | OConnell | | Douglas | Grant | | Jennifer | Whalen | | Pat | Fay | | Susan | Mavris | | Hermann | Baer | | William | Gietz | +-------------+-------------+ 89 rows in set (0.00 sec)

MariaDB [test]> select manager\_id from employees; +------------+ | manager\_id | +------------+ | 0 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 | | 101 | | 101 | | 101 | | 101 | | 101 | | 102 | | 103 | | 103 | | 103 | | 103 | | 108 | | 108 | | 108 | | 108 | | 108 | | 114 | | 114 | | 114 | | 114 | | 114 | | 120 | | 120 | | 120 | | 120 | | 120 | | 120 | | 120 | | 120 | | 121 | | 121 | | 121 | | 121 | | 121 | | 121 | | 121 | | 121 | | 122 | | 122 | | 122 | | 122 | | 122 | | 122 | | 122 | | 122 | | 123 | | 123 | | 123 | | 123 | | 123 | | 123 | | 123 | | 123 | | 124 | | 124 | | 124 | | 124 | | 124 | | 124 | | 124 | | 124 | | 145 | | 145 | | 145 | | 145 | | 145 | | 145 | | 146 | | 146 | | 146 | | 146 | | 146 | | 146 | | 147 | | 147 | | 147 | | 147 | | 147 | | 147 | | 148 | | 148 | | 148 | | 148 | | 148 | | 148 | | 149 | | 149 | | 149 | | 149 | | 149 | | 149 | | 201 | | 205 | +------------+ 107 rows in set (0.02 sec)

MariaDB [test]> select employee\_id from employees where employee\_id not in (select manager\_id from employees group by manager\_id); +-------------+ | employee\_id | +-------------+ | 104 | | 105 | | 106 | | 107 | | 109 | | 110 | | 111 | | 112 | | 113 | | 115 | | 116 | | 117 | | 118 | | 119 | | 125 | | 126 | | 127 | | 128 | | 129 | | 130 | | 131 | | 132 | | 133 | | 134 | | 135 | | 136 | | 137 | | 138 | | 139 | | 140 | | 141 | | 142 | | 143 | | 144 | | 150 | | 151 | | 152 | | 153 | | 154 | | 155 | | 156 | | 157 | | 158 | | 159 | | 160 | | 161 | | 162 | | 163 | | 164 | | 165 | | 166 | | 167 | | 168 | | 169 | | 170 | | 171 | | 172 | | 173 | | 174 | | 175 | | 176 | | 177 | | 178 | | 179 | | 180 | | 181 | | 182 | | 183 | | 184 | | 185 | | 186 | | 187 | | 188 | | 189 | | 190 | | 191 | | 192 | | 193 | | 194 | | 195 | | 196 | | 197 | | 198 | | 199 | | 200 | | 202 | | 203 | | 204 | | 206 | +-------------+ 89 rows in set (0.00 sec)

MariaDB [test]> select 'x' from employees; +---+ | x | +---+ | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | | x | +---+ 107 rows in set (0.00 sec)

MariaDB [test]> select employee\_id, first\_name, last\_name, -> (select department\_name from departments d -> where e.department\_id = d.department\_id) department -> from employees e order by department; +-------------+-------------+-------------+------------------+ | employee\_id | first\_name | last\_name | department | +-------------+-------------+-------------+------------------+ | 178 | Kimberely | Grant | NULL | | 205 | Shelley | Higgins | Accounting | | 206 | William | Gietz | Accounting | | 200 | Jennifer | Whalen | Administration | | 100 | Steven | King | Executive | | 102 | Lex | De Haan | Executive | | 101 | Neena | Kochhar | Executive | | 112 | Jose Manuel | Urman | Finance | | 113 | Luis | Popp | Finance | | 111 | Ismael | Sciarra | Finance | | 110 | John | Chen | Finance | | 109 | Daniel | Faviet | Finance | | 108 | Nancy | Greenberg | Finance | | 203 | Susan | Mavris | Human Resources | | 103 | Alexander | Hunold | IT | | 104 | Bruce | Ernst | IT | | 105 | David | Austin | IT | | 107 | Diana | Lorentz | IT | | 106 | Valli | Pataballa | IT | | 202 | Pat | Fay | Marketing | | 201 | Michael | Hartstein | Marketing | | 204 | Hermann | Baer | Public Relations | | 118 | Guy | Himuro | Purchasing | | 114 | Den | Raphaely | Purchasing | | 115 | Alexander | Khoo | Purchasing | | 116 | Shelli | Baida | Purchasing | | 117 | Sigal | Tobias | Purchasing | | 119 | Karen | Colmenares | Purchasing | | 163 | Danielle | Greene | Sales | | 162 | Clara | Vishney | Sales | | 161 | Sarath | Sewall | Sales | | 160 | Louise | Doran | Sales | | 159 | Lindsey | Smith | Sales | | 158 | Allan | McEwen | Sales | | 157 | Patrick | Sully | Sales | | 156 | Janette | King | Sales | | 155 | Oliver | Tuvault | Sales | | 154 | Nanette | Cambrault | Sales | | 153 | Christopher | Olsen | Sales | | 164 | Mattea | Marvins | Sales | | 165 | David | Lee | Sales | | 167 | Amit | Banda | Sales | | 177 | Jack | Livingston | Sales | | 176 | Jonathon | Taylor | Sales | | 175 | Alyssa | Hutton | Sales | | 174 | Ellen | Abel | Sales | | 173 | Sundita | Kumar | Sales | | 172 | Elizabeth | Bates | Sales | | 171 | William | Smith | Sales | | 170 | Tayler | Fox | Sales | | 169 | Harrison | Bloom | Sales | | 168 | Lisa | Ozer | Sales | | 179 | Charles | Johnson | Sales | | 152 | Peter | Hall | Sales | | 145 | John | Russell | Sales | | 146 | Karen | Partners | Sales | | 147 | Alberto | Errazuriz | Sales | | 148 | Gerald | Cambrault | Sales | | 149 | Eleni | Zlotkey | Sales | | 150 | Peter | Tucker | Sales | | 151 | David | Bernstein | Sales | | 166 | Sundar | Ande | Sales | | 194 | Samuel | McCain | Shipping | | 193 | Britney | Everett | Shipping | | 192 | Sarah | Bell | Shipping | | 191 | Randall | Perkins | Shipping | | 190 | Timothy | Gates | Shipping | | 189 | Jennifer | Dilly | Shipping | | 188 | Kelly | Chung | Shipping | | 187 | Anthony | Cabrio | Shipping | | 186 | Julia | Dellinger | Shipping | | 195 | Vance | Jones | Shipping | | 196 | Alana | Walsh | Shipping | | 197 | Kevin | Feeney | Shipping | | 180 | Winston | Taylor | Shipping | | 120 | Matthew | Weiss | Shipping | | 121 | Adam | Fripp | Shipping | | 122 | Payam | Kaufling | Shipping | | 123 | Shanta | Vollman | Shipping | | 124 | Kevin | Mourgos | Shipping | | 125 | Julia | Nayer | Shipping | | 199 | Douglas | Grant | Shipping | | 198 | Donald | OConnell | Shipping | | 185 | Alexis | Bull | Shipping | | 184 | Nandita | Sarchand | Shipping | | 183 | Girard | Geoni | Shipping | | 135 | Ki | Gee | Shipping | | 136 | Hazel | Philtanker | Shipping | | 137 | Renske | Ladwig | Shipping | | 138 | Stephen | Stiles | Shipping | | 139 | John | Seo | Shipping | | 140 | Joshua | Patel | Shipping | | 141 | Trenna | Rajs | Shipping | | 142 | Curtis | Davies | Shipping | | 143 | Randall | Matos | Shipping | | 134 | Michael | Rogers | Shipping | | 133 | Jason | Mallin | Shipping | | 182 | Martha | Sullivan | Shipping | | 181 | Jean | Fleaur | Shipping | | 126 | Irene | Mikkilineni | Shipping | | 127 | James | Landry | Shipping | | 128 | Steven | Markle | Shipping | | 129 | Laura | Bissot | Shipping | | 130 | Mozhe | Atkinson | Shipping | | 131 | James | Marlow | Shipping | | 132 | TJ | Olson | Shipping | | 144 | Peter | Vargas | Shipping | +-------------+-------------+-------------+------------------+ 107 rows in set (0.00 sec)

MariaDB [test]> select avg(salary) from employees; +-------------+ | avg(salary) | +-------------+ | 6461.682243 | +-------------+ 1 row in set (0.00 sec)

MariaDB [test]> select avg(salary) from employees group by department\_id; +--------------+ | avg(salary) | +--------------+ | 7000.000000 | | 4400.000000 | | 9500.000000 | | 4150.000000 | | 6500.000000 | | 3475.555556 | | 5760.000000 | | 10000.000000 | | 8955.882353 | | 19333.333333 | | 8600.000000 | | 10150.000000 | +--------------+ 12 rows in set (0.00 sec)

MariaDB [test]> select employee\_id, first\_name from employees as a where salary > (select avg(salary) from employees where department\_id = a.department\_id); +-------------+------------+ | employee\_id | first\_name | +-------------+------------+ | 100 | Steven | | 103 | Alexander | | 104 | Bruce | | 108 | Nancy | | 109 | Daniel | | 114 | Den | | 120 | Matthew | | 121 | Adam | | 122 | Payam | | 123 | Shanta | | 124 | Kevin | | 137 | Renske | | 141 | Trenna | | 145 | John | | 146 | Karen | | 147 | Alberto | | 148 | Gerald | | 149 | Eleni | | 150 | Peter | | 151 | David | | 152 | Peter | | 156 | Janette | | 157 | Patrick | | 158 | Allan | | 162 | Clara | | 163 | Danielle | | 168 | Lisa | | 169 | Harrison | | 170 | Tayler | | 174 | Ellen | | 184 | Nandita | | 185 | Alexis | | 188 | Kelly | | 189 | Jennifer | | 192 | Sarah | | 193 | Britney | | 201 | Michael | | 205 | Shelley | +-------------+------------+ 38 rows in set (0.00 sec)

MariaDB [test]> set @j=0; Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> select j, employee\_id from (select 2j := 2j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 0; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ':= 2j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 0' at line 1 MariaDB [test]> select j, employee\_id from (select 2j := @j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 0; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ':= @j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 0' at line 1 MariaDB [test]> select j, employee\_id from (select @j := @j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 0; +------+-------------+ | j | employee\_id | +------+-------------+ | 2 | 101 | | 4 | 103 | | 6 | 105 | | 8 | 107 | | 10 | 109 | | 12 | 111 | | 14 | 113 | | 16 | 115 | | 18 | 117 | | 20 | 119 | | 22 | 121 | | 24 | 123 | | 26 | 125 | | 28 | 127 | | 30 | 129 | | 32 | 131 | | 34 | 133 | | 36 | 135 | | 38 | 137 | | 40 | 139 | | 42 | 141 | | 44 | 143 | | 46 | 145 | | 48 | 147 | | 50 | 149 | | 52 | 151 | | 54 | 153 | | 56 | 155 | | 58 | 157 | | 60 | 159 | | 62 | 161 | | 64 | 163 | | 66 | 165 | | 68 | 167 | | 70 | 169 | | 72 | 171 | | 74 | 173 | | 76 | 175 | | 78 | 177 | | 80 | 179 | | 82 | 181 | | 84 | 183 | | 86 | 185 | | 88 | 187 | | 90 | 189 | | 92 | 191 | | 94 | 193 | | 96 | 195 | | 98 | 197 | | 100 | 199 | | 102 | 201 | | 104 | 203 | | 106 | 205 | +------+-------------+ 53 rows in set (0.00 sec)

MariaDB [test]> select j, employee\_id from (select @j := @j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 1; +------+-------------+ | j | employee\_id | +------+-------------+ | 109 | 101 | | 111 | 103 | | 113 | 105 | | 115 | 107 | | 117 | 109 | | 119 | 111 | | 121 | 113 | | 123 | 115 | | 125 | 117 | | 127 | 119 | | 129 | 121 | | 131 | 123 | | 133 | 125 | | 135 | 127 | | 137 | 129 | | 139 | 131 | | 141 | 133 | | 143 | 135 | | 145 | 137 | | 147 | 139 | | 149 | 141 | | 151 | 143 | | 153 | 145 | | 155 | 147 | | 157 | 149 | | 159 | 151 | | 161 | 153 | | 163 | 155 | | 165 | 157 | | 167 | 159 | | 169 | 161 | | 171 | 163 | | 173 | 165 | | 175 | 167 | | 177 | 169 | | 179 | 171 | | 181 | 173 | | 183 | 175 | | 185 | 177 | | 187 | 179 | | 189 | 181 | | 191 | 183 | | 193 | 185 | | 195 | 187 | | 197 | 189 | | 199 | 191 | | 201 | 193 | | 203 | 195 | | 205 | 197 | | 207 | 199 | | 209 | 201 | | 211 | 203 | | 213 | 205 | +------+-------------+ 53 rows in set (0.00 sec)

MariaDB [test]> set @j=0; Query OK, 0 rows affected (0.00 sec)

MariaDB [test]> select j, employee\_id from (select @j := @j + 1 as j, employee\_id from employees) a where MOD(a.j,2) = 1; +------+-------------+ | j | employee\_id | +------+-------------+ | 1 | 100 | | 3 | 102 | | 5 | 104 | | 7 | 106 | | 9 | 108 | | 11 | 110 | | 13 | 112 | | 15 | 114 | | 17 | 116 | | 19 | 118 | | 21 | 120 | | 23 | 122 | | 25 | 124 | | 27 | 126 | | 29 | 128 | | 31 | 130 | | 33 | 132 | | 35 | 134 | | 37 | 136 | | 39 | 138 | | 41 | 140 | | 43 | 142 | | 45 | 144 | | 47 | 146 | | 49 | 148 | | 51 | 150 | | 53 | 152 | | 55 | 154 | | 57 | 156 | | 59 | 158 | | 61 | 160 | | 63 | 162 | | 65 | 164 | | 67 | 166 | | 69 | 168 | | 71 | 170 | | 73 | 172 | | 75 | 174 | | 77 | 176 | | 79 | 178 | | 81 | 180 | | 83 | 182 | | 85 | 184 | | 87 | 186 | | 89 | 188 | | 91 | 190 | | 93 | 192 | | 95 | 194 | | 97 | 196 | | 99 | 198 | | 101 | 200 | | 103 | 202 | | 105 | 204 | | 107 | 206 | +------+-------------+ 54 rows in set (0.00 sec)

MariaDB [test]> select count (distinct)salary from employees; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'distinct)salary from employees' at line 1 MariaDB [test]> select count (distinct )salary from employees; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'distinct )salary from employees' at line 1 MariaDB [test]> select count(distinct) salary from employees; ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ') salary from employees' at line 1 MariaDB [test]> select distinct (salary) from employees; +----------+ | salary | +----------+ | 24000.00 | | 17000.00 | | 9000.00 | | 6000.00 | | 4800.00 | | 4200.00 | | 12000.00 | | 8200.00 | | 7700.00 | | 7800.00 | | 6900.00 | | 11000.00 | | 3100.00 | | 2900.00 | | 2800.00 | | 2600.00 | | 2500.00 | | 8000.00 | | 7900.00 | | 6500.00 | | 5800.00 | | 3200.00 | | 2700.00 | | 2400.00 | | 2200.00 | | 3300.00 | | 2100.00 | | 3600.00 | | 3500.00 | | 14000.00 | | 13500.00 | | 10500.00 | | 10000.00 | | 9500.00 | | 7500.00 | | 7000.00 | | 7200.00 | | 6800.00 | | 6400.00 | | 6200.00 | | 11500.00 | | 9600.00 | | 7400.00 | | 7300.00 | | 6100.00 | | 8800.00 | | 8600.00 | | 8400.00 | | 4100.00 | | 3400.00 | | 3000.00 | | 3800.00 | | 4000.00 | | 3900.00 | | 4400.00 | | 13000.00 | | 8300.00 | +----------+ 57 rows in set (0.00 sec)

MariaDB [test]> select distinct (salary) from employees order by s1 desc; ERROR 1054 (42S22): Unknown column 's1' in 'order clause' MariaDB [test]> select distinct (salary) s1 from employees order by s1 desc; +----------+ | s1 | +----------+ | 24000.00 | | 17000.00 | | 14000.00 | | 13500.00 | | 13000.00 | | 12000.00 | | 11500.00 | | 11000.00 | | 10500.00 | | 10000.00 | | 9600.00 | | 9500.00 | | 9000.00 | | 8800.00 | | 8600.00 | | 8400.00 | | 8300.00 | | 8200.00 | | 8000.00 | | 7900.00 | | 7800.00 | | 7700.00 | | 7500.00 | | 7400.00 | | 7300.00 | | 7200.00 | | 7000.00 | | 6900.00 | | 6800.00 | | 6500.00 | | 6400.00 | | 6200.00 | | 6100.00 | | 6000.00 | | 5800.00 | | 4800.00 | | 4400.00 | | 4200.00 | | 4100.00 | | 4000.00 | | 3900.00 | | 3800.00 | | 3600.00 | | 3500.00 | | 3400.00 | | 3300.00 | | 3200.00 | | 3100.00 | | 3000.00 | | 2900.00 | | 2800.00 | | 2700.00 | | 2600.00 | | 2500.00 | | 2400.00 | | 2200.00 | | 2100.00 | +----------+ 57 rows in set (0.00 sec)

MariaDB [test]> select 5 max from employees where emp.salary =(select distinct (salary) s1 from employees order by s1 desc); ERROR 1054 (42S22): Unknown column 'emp.salary' in 'where clause' MariaDB [test]> select salary from employees limit 5; +----------+ | salary | +----------+ | 24000.00 | | 17000.00 | | 17000.00 | | 9000.00 | | 6000.00 | +----------+ 5 rows in set (0.00 sec)

MariaDB [test]>