Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 5

Server version: 10.1.21-MariaDB mariadb.org binary distribution

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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 (0.02 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\_ID` decimal(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 (0.00 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 (0.01 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\_ID` varchar(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 (0.00 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 (0.02 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\_CODE` varchar(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 (0.02 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

-> gggg;

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 2

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 (0.01 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');/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

Query OK, 4 rows affected (0.00 sec)

Records: 4 Duplicates: 0 Warnings: 0

ERROR 1231 (42000): Variable 'character\_set\_client' can't be set to the value of 'NULL'

Query OK, 0 rows affected (0.00 sec)

ERROR 1231 (42000): Variable 'collation\_connection' can't be set to the value of 'NULL'

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');

ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'

MariaDB [test]> show tables;

+----------------+

| Tables\_in\_test |

+----------------+

| countries |

| departments |

| employees |

| job\_history |

| jobs |

| locations |

| regions |

+----------------+

7 rows in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name, max(salary) from employees where\_department\_id IN (select department\_id from department\_name = 'IT');

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 'IN (select department\_id from department\_name = 'IT')' at line 1

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 (0.02 sec)

MariaDB [test]> show tables;

+----------------+

| Tables\_in\_test |

+----------------+

| countries |

| departments |

| employees |

| job\_history |

| jobs |

| locations |

| regions |

+----------------+

7 rows in set (0.00 sec)

MariaDB [test]> select \* from locations;

+-------------+---------------------------+--------------+---------------------+-------------------+------------+

| LOCATION\_ID | STREET\_ADDRESS | POSTAL\_CODE | CITY | STATE\_PROVINCE | COUNTRY\_ID |

+-------------+---------------------------+--------------+---------------------+-------------------+------------+

| 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 | " |

+-------------+---------------------------+--------------+---------------------+-------------------+------------+

23 rows in set (0.00 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 locations \_id from locations where country\_id = 'U';

ERROR 1054 (42S22): Unknown column 'locations' in 'field list'

MariaDB [test]> select country \_id from locations where country\_id = 'US';

ERROR 1054 (42S22): Unknown column 'country' in 'field list'

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 first\_name, last\_name, department\_id from employ;

ERROR 1146 (42S02): Table 'test.employ' doesn't exist

MariaDB [test]> desc manager\_id;

ERROR 1146 (42S02): Table 'test.manager\_id' 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 (0.01 sec)

MariaDB [test]> SELECT first\_name, last\_name FROM employees

-> WHERTE manager\_id in

-> (select employee\_id in

-> ;

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 'manager\_id in

(select employee\_id in' at line 2

MariaDB [test]> SELECT first\_name, last\_name FROM employees

-> -> WHERTE manager\_id in

-> SELECT first\_name, last\_name FROM employees

-> -> WHERTE manager\_id in;

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 '-> WHERTE manager\_id in

SELECT first\_name, last\_name FROM employees

-> WHER' at line 2

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 departmnets WHERE locations\_id

-> IN (select location\_id FROM locations WHERE country\_id='US')));

ERROR 1146 (42S02): Table 'test.departmnets' doesn't exist

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 departmnets WHERE location\_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 manager\_id in

-> (select employee\_id FROM employees

-> WHERE de' at line 2

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 departmnets WHERE locations\_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 manager\_id in

-> (select employee\_id FROM employees

-> WHERE de' at line 2

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]> select first\_name, last\_name from 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 'in (select manager\_id from employees)' 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]> slect first\_name, last\_name, employee\_id, manager\_id from employees where employee\_id in (select manager\_id from employees group by manager\_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 'slect first\_name, last\_name, employee\_id, manager\_id from employees where employ' at line 1

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 (0.02 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 (0.00 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 first\_name, last\_name, salary FROM employees WHERE employees.salary = (SELECT min\_salary from jobs

-> ;

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, 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 \* from deparments;

ERROR 1146 (42S02): Table 'test.deparments' doesn't exist

MariaDB [test]> select \* from departments;

+---------------+----------------------+------------+-------------+

| DEPARTMENT\_ID | DEPARTMENT\_NAME | MANAGER\_ID | LOCATION\_ID |

+---------------+----------------------+------------+-------------+

| 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 |

+---------------+----------------------+------------+-------------+

27 rows in set (0.00 sec)

MariaDB [test]> SELECT frist\_name, last\_name, salary FROM employees

-> ;

ERROR 1054 (42S22): Unknown column 'frist\_name' in 'field list'

MariaDB [test]> SELECT frist\_name, last\_name, salary FROM employees WHERE department\_id IN (SELECT department\_id FROM departments WHERE department\_name LIKE 'IT%') ANd salary > (SELECT avg(salary) FROM employees);

ERROR 1054 (42S22): Unknown column 'frist\_name' in 'field list'

MariaDB [test]> SELECT first\_name, last\_name, salary FROM employees WHERE department\_id IN (SELECT department\_id FROM departments WHERE department\_name LIKE 'IT%') ANd salary > (SELECT avg(salary) FROM employees);

+------------+-----------+---------+

| first\_name | last\_name | salary |

+------------+-----------+---------+

| Alexander | Hunold | 9000.00 |

+------------+-----------+---------+

1 row in set (0.00 sec)

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 min(salary) from employees;

+-------------+

| min(salary) |

+-------------+

| 2100.00 |

+-------------+

1 row in set (0.00 sec)

MariaDB [test]> select first\_name, last\_name from employees where salary = (select min(salary) from employees);

+------------+-----------+

| first\_name | last\_name |

+------------+-----------+

| TJ | Olson |

+------------+-----------+

1 row 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 avg(salary),department\_id from employees group by department\_id;

+--------------+---------------+

| avg(salary) | department\_id |

+--------------+---------------+

| 7000.000000 | 0 |

| 4400.000000 | 10 |

| 9500.000000 | 20 |

| 4150.000000 | 30 |

| 6500.000000 | 40 |

| 3475.555556 | 50 |

| 5760.000000 | 60 |

| 10000.000000 | 70 |

| 8955.882353 | 80 |

| 19333.333333 | 90 |

| 8600.000000 | 100 |

| 10150.000000 | 110 |

+--------------+---------------+

12 rows in set (0.00 sec)

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

+------------+-----------+----------+

| first\_name | last\_name | salary |

+------------+-----------+----------+

| Steven | King | 24000.00 |

+------------+-----------+----------+

1 row in set (0.00 sec)

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]> select first\_name, last\_name, jod\_id, salary from employees where salary > All (select salary from employees where job\_id = 'SH\_CLERK') ORDER BY salary;

ERROR 1054 (42S22): Unknown column 'jod\_id' in 'field list'

MariaDB [test]> select first\_name, last\_name, job\_id, salary from employees where salary > All (select salary from employees where job\_id = 'SH\_CLERK') ORDER BY salary;

+-------------+------------+------------+----------+

| first\_name | last\_name | job\_id | salary |

+-------------+------------+------------+----------+

| Jennifer | Whalen | AD\_ASST | 4400.00 |

| David | Austin | IT\_PROG | 4800.00 |

| Valli | Pataballa | IT\_PROG | 4800.00 |

| Kevin | Mourgos | ST\_MAN | 5800.00 |

| Bruce | Ernst | IT\_PROG | 6000.00 |

| Pat | Fay | MK\_REP | 6000.00 |

| Sundita | Kumar | SA\_REP | 6100.00 |

| Amit | Banda | SA\_REP | 6200.00 |

| Charles | Johnson | SA\_REP | 6200.00 |

| Sundar | Ande | SA\_REP | 6400.00 |

| Susan | Mavris | HR\_REP | 6500.00 |

| Shanta | Vollman | ST\_MAN | 6500.00 |

| David | Lee | SA\_REP | 6800.00 |

| Luis | Popp | FI\_ACCOUNT | 6900.00 |

| Sarath | Sewall | SA\_REP | 7000.00 |

| Oliver | Tuvault | SA\_REP | 7000.00 |

| Kimberely | Grant | SA\_REP | 7000.00 |

| Mattea | Marvins | SA\_REP | 7200.00 |

| Elizabeth | Bates | SA\_REP | 7300.00 |

| William | Smith | SA\_REP | 7400.00 |

| Nanette | Cambrault | SA\_REP | 7500.00 |

| Louise | Doran | SA\_REP | 7500.00 |

| Ismael | Sciarra | FI\_ACCOUNT | 7700.00 |

| Jose Manuel | Urman | FI\_ACCOUNT | 7800.00 |

| Payam | Kaufling | ST\_MAN | 7900.00 |

| Lindsey | Smith | SA\_REP | 8000.00 |

| Matthew | Weiss | ST\_MAN | 8000.00 |

| Christopher | Olsen | SA\_REP | 8000.00 |

| Adam | Fripp | ST\_MAN | 8200.00 |

| John | Chen | FI\_ACCOUNT | 8200.00 |

| William | Gietz | AC\_ACCOUNT | 8300.00 |

| Jack | Livingston | SA\_REP | 8400.00 |

| Jonathon | Taylor | SA\_REP | 8600.00 |

| Alyssa | Hutton | SA\_REP | 8800.00 |

| Allan | McEwen | SA\_REP | 9000.00 |

| Peter | Hall | SA\_REP | 9000.00 |

| Alexander | Hunold | IT\_PROG | 9000.00 |

| Daniel | Faviet | FI\_ACCOUNT | 9000.00 |

| Patrick | Sully | SA\_REP | 9500.00 |

| Danielle | Greene | SA\_REP | 9500.00 |

| David | Bernstein | SA\_REP | 9500.00 |

| Tayler | Fox | SA\_REP | 9600.00 |

| Hermann | Baer | PR\_REP | 10000.00 |

| Harrison | Bloom | SA\_REP | 10000.00 |

| Janette | King | SA\_REP | 10000.00 |

| Peter | Tucker | SA\_REP | 10000.00 |

| Eleni | Zlotkey | SA\_MAN | 10500.00 |

| Clara | Vishney | SA\_REP | 10500.00 |

| Gerald | Cambrault | SA\_MAN | 11000.00 |

| Ellen | Abel | SA\_REP | 11000.00 |

| Den | Raphaely | PU\_MAN | 11000.00 |

| Lisa | Ozer | SA\_REP | 11500.00 |

| Alberto | Errazuriz | SA\_MAN | 12000.00 |

| Shelley | Higgins | AC\_MGR | 12000.00 |

| Nancy | Greenberg | FI\_MGR | 12000.00 |

| Michael | Hartstein | MK\_MAN | 13000.00 |

| Karen | Partners | SA\_MAN | 13500.00 |

| John | Russell | SA\_MAN | 14000.00 |

| Lex | De Haan | AD\_VP | 17000.00 |

| Neena | Kochhar | AD\_VP | 17000.00 |

| Steven | King | AD\_PRES | 24000.00 |

+-------------+------------+------------+----------+

61 rows in set (0.00 sec)

MariaDB [test]> select b.first\_name,b.last\_name from employes b where not exists (select 'X' from employees a where a.maanager\_id = b.employee\_id);

ERROR 1146 (42S02): Table 'test.employes' doesn't exist

MariaDB [test]> select b.first\_name, b.last\_name from employes b where NOT EXISTS (select 'X' from employees a where a.maanager\_id = b.employee\_id);

ERROR 1146 (42S02): Table 'test.employes' doesn't exist

MariaDB [test]> select b.first\_name, b.last\_name from employees b where NOT EXISTS (select 'X' from employees a where a.maanager\_id = b.employee\_id);

ERROR 1054 (42S22): Unknown column 'a.maanager\_id' in 'where clause'

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 group by manager\_id;

+------------+

| manager\_id |

+------------+

| 0 |

| 100 |

| 101 |

| 102 |

| 103 |

| 108 |

| 114 |

| 120 |

| 121 |

| 122 |

| 123 |

| 124 |

| 145 |

| 146 |

| 147 |

| 148 |

| 149 |

| 201 |

| 205 |

+------------+

19 rows in set (0.00 sec)

MariaDB [test]> select employee\_id, first\_name, last\_name, (select department\_name from departments d where e.departments\_id = d.department\_id) department from employees e order by department;

ERROR 1054 (42S22): Unknown column 'e.departments\_id' in 'where clause'

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 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 employee as a where salary > (select avg(salary) from employees where department\_id = A.department\_id);

ERROR 1146 (42S02): Table 'test.employee' doesn't exist

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 @i = 0;

Query OK, 0 rows affected (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) where MOD(a.j,2) =0;

ERROR 1248 (42000): Every derived table must have its own alias

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 count(distinct salary) from employees;

+------------------------+

| count(distinct salary) |

+------------------------+

| 57 |

+------------------------+

1 row in set (0.00 sec)

MariaDB [test]> select count(distinct salary) s1 from employees order by s1 desc;

+----+

| s1 |

+----+

| 57 |

+----+

1 row in set (0.00 sec)

MariaDB [test]> select (salary) s1 from employees order by s1 desc;

+----------+

| s1 |

+----------+

| 24000.00 |

| 17000.00 |

| 17000.00 |

| 14000.00 |

| 13500.00 |

| 13000.00 |

| 12000.00 |

| 12000.00 |

| 12000.00 |

| 11500.00 |

| 11000.00 |

| 11000.00 |

| 11000.00 |

| 10500.00 |

| 10500.00 |

| 10000.00 |

| 10000.00 |

| 10000.00 |

| 10000.00 |

| 9600.00 |

| 9500.00 |

| 9500.00 |

| 9500.00 |

| 9000.00 |

| 9000.00 |

| 9000.00 |

| 9000.00 |

| 8800.00 |

| 8600.00 |

| 8400.00 |

| 8300.00 |

| 8200.00 |

| 8200.00 |

| 8000.00 |

| 8000.00 |

| 8000.00 |

| 7900.00 |

| 7800.00 |

| 7700.00 |

| 7500.00 |

| 7500.00 |

| 7400.00 |

| 7300.00 |

| 7200.00 |

| 7000.00 |

| 7000.00 |

| 7000.00 |

| 6900.00 |

| 6800.00 |

| 6500.00 |

| 6500.00 |

| 6400.00 |

| 6200.00 |

| 6200.00 |

| 6100.00 |

| 6000.00 |

| 6000.00 |

| 5800.00 |

| 4800.00 |

| 4800.00 |

| 4400.00 |

| 4200.00 |

| 4200.00 |

| 4100.00 |

| 4000.00 |

| 3900.00 |

| 3800.00 |

| 3600.00 |

| 3600.00 |

| 3500.00 |

| 3400.00 |

| 3300.00 |

| 3300.00 |

| 3200.00 |

| 3200.00 |

| 3200.00 |

| 3200.00 |

| 3100.00 |

| 3100.00 |

| 3100.00 |

| 3100.00 |

| 3000.00 |

| 3000.00 |

| 2900.00 |

| 2900.00 |

| 2900.00 |

| 2800.00 |

| 2800.00 |

| 2800.00 |

| 2800.00 |

| 2700.00 |

| 2700.00 |

| 2600.00 |

| 2600.00 |

| 2600.00 |

| 2600.00 |

| 2500.00 |

| 2500.00 |

| 2500.00 |

| 2500.00 |

| 2500.00 |

| 2500.00 |

| 2400.00 |

| 2400.00 |

| 2200.00 |

| 2200.00 |

| 2100.00 |

+----------+

107 rows in set (0.00 sec)

MariaDB [test]>