Setting environment for using XAMPP for Windows.

731816@128-IMAC27 c:\xampp

# mysql -u root -p csd2204w18 < C:/XAMPP/db.sql;

mysql Ver 15.1 Distrib 10.1.21-MariaDB, for Win32 (AMD64)

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

Usage: mysql [OPTIONS] [database]

Default options are read from the following files in the given order:

C:\Windows\my.ini C:\Windows\my.cnf C:\my.ini C:\my.cnf C:\xampp\mysql\my.ini C:\xampp\mysql\my.cnf C:\xampp\mysql\data\my.ini C:\xampp\mysql\data\my.cnf C:\xampp\mysql\bin\my.ini C:\xampp\mysql\bin\my.cnf

The following groups are read: mysql client client-server client-mariadb

The following options may be given as the first argument:

--print-defaults Print the program argument list and exit.

--no-defaults Don't read default options from any option file.

--defaults-file=# Only read default options from the given file #.

--defaults-extra-file=# Read this file after the global files are read.

-?, --help Display this help and exit.

-I, --help Synonym for -?

--abort-source-on-error

Abort 'source filename' operations in case of errors

--auto-rehash Enable automatic rehashing. One doesn't need to use

'rehash' to get table and field completion, but startup

and reconnecting may take a longer time. Disable with

--disable-auto-rehash.

(Defaults to on; use --skip-auto-rehash to disable.)

-A, --no-auto-rehash

No automatic rehashing. One has to use 'rehash' to get

table and field completion. This gives a quicker start of

mysql and disables rehashing on reconnect.

--auto-vertical-output

Automatically switch to vertical output mode if the

result is wider than the terminal width.

-B, --batch Don't use history file. Disable interactive behavior.

(Enables --silent.)

--character-sets-dir=name

Directory for character set files.

--column-type-info Display column type information.

-c, --comments Preserve comments. Send comments to the server. The

default is --skip-comments (discard comments), enable

with --comments.

-C, --compress Use compression in server/client protocol.

-#, --debug[=#] This is a non-debug version. Catch this and exit.

--debug-check Check memory and open file usage at exit.

-T, --debug-info Print some debug info at exit.

-D, --database=name Database to use.

--default-character-set=name

Set the default character set.

--delimiter=name Delimiter to be used.

-e, --execute=name Execute command and quit. (Disables --force and history

file.)

-E, --vertical Print the output of a query (rows) vertically.

-f, --force Continue even if we get an SQL error. Sets

abort-source-on-error to 0

-G, --named-commands

Enable named commands. Named commands mean this program's

internal commands; see mysql> help . When enabled, the

named commands can be used from any line of the query,

otherwise only from the first line, before an enter.

Disable with --disable-named-commands. This option is

disabled by default.

-i, --ignore-spaces Ignore space after function names.

--init-command=name SQL Command to execute when connecting to MySQL server.

Will automatically be re-executed when reconnecting.

--local-infile Enable/disable LOAD DATA LOCAL INFILE.

-b, --no-beep Turn off beep on error.

-h, --host=name Connect to host.

-H, --html Produce HTML output.

-X, --xml Produce XML output.

--line-numbers Write line numbers for errors.

(Defaults to on; use --skip-line-numbers to disable.)

-L, --skip-line-numbers

Don't write line number for errors.

-n, --unbuffered Flush buffer after each query.

--column-names Write column names in results.

(Defaults to on; use --skip-column-names to disable.)

-N, --skip-column-names

Don't write column names in results.

--sigint-ignore Ignore SIGINT (CTRL-C).

-o, --one-database Ignore statements except those that occur while the

default database is the one named at the command line.

-p, --password[=name]

Password to use when connecting to server. If password is

not given it's asked from the tty.

-W, --pipe Use named pipes to connect to server.

-P, --port=# Port number to use for connection or 0 for default to, in

order of preference, my.cnf, $MYSQL\_TCP\_PORT,

/etc/services, built-in default (3306).

--progress-reports Get progress reports for long running commands (like

ALTER TABLE)

(Defaults to on; use --skip-progress-reports to disable.)

--prompt=name Set the mysql prompt to this value.

--protocol=name The protocol to use for connection (tcp, socket, pipe,

memory).

-q, --quick Don't cache result, print it row by row. This may slow

down the server if the output is suspended. Doesn't use

history file.

-r, --raw Write fields without conversion. Used with --batch.

--reconnect Reconnect if the connection is lost. Disable with

--disable-reconnect. This option is enabled by default.

(Defaults to on; use --skip-reconnect to disable.)

-s, --silent Be more silent. Print results with a tab as separator,

each row on new line.

--shared-memory-base-name=name

Base name of shared memory.

-S, --socket=name The socket file to use for connection.

--ssl Enable SSL for connection (automatically enabled with

other flags).

--ssl-ca=name CA file in PEM format (check OpenSSL docs, implies

--ssl).

--ssl-capath=name CA directory (check OpenSSL docs, implies --ssl).

--ssl-cert=name X509 cert in PEM format (implies --ssl).

--ssl-cipher=name SSL cipher to use (implies --ssl).

--ssl-key=name X509 key in PEM format (implies --ssl).

--ssl-crl=name Certificate revocation list (implies --ssl).

--ssl-crlpath=name Certificate revocation list path (implies --ssl).

--ssl-verify-server-cert

Verify server's "Common Name" in its cert against

hostname used when connecting. This option is disabled by

default.

-t, --table Output in table format.

--tee=name Append everything into outfile. See interactive help (\h)

also. Does not work in batch mode. Disable with

--disable-tee. This option is disabled by default.

-u, --user=name User for login if not current user.

-U, --safe-updates Only allow UPDATE and DELETE that uses keys.

-U, --i-am-a-dummy Synonym for option --safe-updates, -U.

-v, --verbose Write more. (-v -v -v gives the table output format).

-V, --version Output version information and exit.

-w, --wait Wait and retry if connection is down.

--connect-timeout=# Number of seconds before connection timeout.

--max-allowed-packet=#

The maximum packet length to send to or receive from

server.

--net-buffer-length=#

The buffer size for TCP/IP and socket communication.

--select-limit=# Automatic limit for SELECT when using --safe-updates.

--max-join-size=# Automatic limit for rows in a join when using

--safe-updates.

--secure-auth Refuse client connecting to server if it uses old

(pre-4.1.1) protocol.

--server-arg=name Send embedded server this as a parameter.

--show-warnings Show warnings after every statement.

--plugin-dir=name Directory for client-side plugins.

--default-auth=name Default authentication client-side plugin to use.

--binary-mode By default, ASCII '\0' is disallowed and '\r\n' is

translated to '\n'. This switch turns off both features,

and also turns off parsing of all clientcommands except

\C and DELIMITER, in non-interactive mode (for input

piped to mysql or loaded using the 'source' command).

This is necessary when processing output from mysqlbinlog

that may contain blobs.

Variables (--variable-name=value)

and boolean options {FALSE|TRUE} Value (after reading options)

--------------------------------- ----------------------------------------

abort-source-on-error FALSE

auto-rehash FALSE

auto-vertical-output FALSE

character-sets-dir (No default value)

column-type-info FALSE

comments FALSE

compress FALSE

debug-check FALSE

debug-info FALSE

database (No default value)

default-character-set auto

delimiter ;

vertical FALSE

force FALSE

named-commands FALSE

ignore-spaces FALSE

init-command (No default value)

local-infile FALSE

no-beep FALSE

host (No default value)

html FALSE

xml FALSE

line-numbers TRUE

unbuffered FALSE

column-names TRUE

sigint-ignore FALSE

port 3306

progress-reports FALSE

prompt \N [\d]>

quick FALSE

raw FALSE

reconnect FALSE

shared-memory-base-name (No default value)

socket C:/xampp/mysql/mysql.sock

ssl FALSE

ssl-ca (No default value)

ssl-capath (No default value)

ssl-cert (No default value)

ssl-cipher (No default value)

ssl-key (No default value)

ssl-crl (No default value)

ssl-crlpath (No default value)

ssl-verify-server-cert FALSE

table FALSE

user root

safe-updates FALSE

i-am-a-dummy FALSE

connect-timeout 0

max-allowed-packet 16777216

net-buffer-length 16384

select-limit 1000

max-join-size 1000000

secure-auth FALSE

show-warnings FALSE

plugin-dir (No default value)

default-auth (No default value)

binary-mode FALSE

731816@128-IMAC27 c:\xampp

# mysql -u root -p

Enter password:

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

Your MariaDB connection id is 4

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 |

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

| csd22014w18 |

| information\_schema |

| mysql |

| performance\_schema |

| phpmyadmin |

| test |

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

6 rows in set (0.00 sec)

MariaDB [(none)]> create database csd2204w18;

Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use csd2204w18;

Database changed

MariaDB [csd2204w18]> show tables;

Empty set (0.00 sec)

MariaDB [csd2204w18]> exit;

Bye

731816@128-IMAC27 c:\xampp

# mysql -u root -p

Enter password:

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

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)]> exit

Bye

731816@128-IMAC27 c:\xampp

# mysql -u root -p csd2204w18 < C:/XAMPP/db.sql;

mysql Ver 15.1 Distrib 10.1.21-MariaDB, for Win32 (AMD64)

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

Usage: mysql [OPTIONS] [database]

Default options are read from the following files in the given order:

C:\Windows\my.ini C:\Windows\my.cnf C:\my.ini C:\my.cnf C:\xampp\mysql\my.ini C:\xampp\mysql\my.cnf C:\xampp\mysql\data\my.ini C:\xampp\mysql\data\my.cnf C:\xampp\mysql\bin\my.ini C:\xampp\mysql\bin\my.cnf

The following groups are read: mysql client client-server client-mariadb

The following options may be given as the first argument:

--print-defaults Print the program argument list and exit.

--no-defaults Don't read default options from any option file.

--defaults-file=# Only read default options from the given file #.

--defaults-extra-file=# Read this file after the global files are read.

-?, --help Display this help and exit.

-I, --help Synonym for -?

--abort-source-on-error

Abort 'source filename' operations in case of errors

--auto-rehash Enable automatic rehashing. One doesn't need to use

'rehash' to get table and field completion, but startup

and reconnecting may take a longer time. Disable with

--disable-auto-rehash.

(Defaults to on; use --skip-auto-rehash to disable.)

-A, --no-auto-rehash

No automatic rehashing. One has to use 'rehash' to get

table and field completion. This gives a quicker start of

mysql and disables rehashing on reconnect.

--auto-vertical-output

Automatically switch to vertical output mode if the

result is wider than the terminal width.

-B, --batch Don't use history file. Disable interactive behavior.

(Enables --silent.)

--character-sets-dir=name

Directory for character set files.

--column-type-info Display column type information.

-c, --comments Preserve comments. Send comments to the server. The

default is --skip-comments (discard comments), enable

with --comments.

-C, --compress Use compression in server/client protocol.

-#, --debug[=#] This is a non-debug version. Catch this and exit.

--debug-check Check memory and open file usage at exit.

-T, --debug-info Print some debug info at exit.

-D, --database=name Database to use.

--default-character-set=name

Set the default character set.

--delimiter=name Delimiter to be used.

-e, --execute=name Execute command and quit. (Disables --force and history

file.)

-E, --vertical Print the output of a query (rows) vertically.

-f, --force Continue even if we get an SQL error. Sets

abort-source-on-error to 0

-G, --named-commands

Enable named commands. Named commands mean this program's

internal commands; see mysql> help . When enabled, the

named commands can be used from any line of the query,

otherwise only from the first line, before an enter.

Disable with --disable-named-commands. This option is

disabled by default.

-i, --ignore-spaces Ignore space after function names.

--init-command=name SQL Command to execute when connecting to MySQL server.

Will automatically be re-executed when reconnecting.

--local-infile Enable/disable LOAD DATA LOCAL INFILE.

-b, --no-beep Turn off beep on error.

-h, --host=name Connect to host.

-H, --html Produce HTML output.

-X, --xml Produce XML output.

--line-numbers Write line numbers for errors.

(Defaults to on; use --skip-line-numbers to disable.)

-L, --skip-line-numbers

Don't write line number for errors.

-n, --unbuffered Flush buffer after each query.

--column-names Write column names in results.

(Defaults to on; use --skip-column-names to disable.)

-N, --skip-column-names

Don't write column names in results.

--sigint-ignore Ignore SIGINT (CTRL-C).

-o, --one-database Ignore statements except those that occur while the

default database is the one named at the command line.

-p, --password[=name]

Password to use when connecting to server. If password is

not given it's asked from the tty.

-W, --pipe Use named pipes to connect to server.

-P, --port=# Port number to use for connection or 0 for default to, in

order of preference, my.cnf, $MYSQL\_TCP\_PORT,

/etc/services, built-in default (3306).

--progress-reports Get progress reports for long running commands (like

ALTER TABLE)

(Defaults to on; use --skip-progress-reports to disable.)

--prompt=name Set the mysql prompt to this value.

--protocol=name The protocol to use for connection (tcp, socket, pipe,

memory).

-q, --quick Don't cache result, print it row by row. This may slow

down the server if the output is suspended. Doesn't use

history file.

-r, --raw Write fields without conversion. Used with --batch.

--reconnect Reconnect if the connection is lost. Disable with

--disable-reconnect. This option is enabled by default.

(Defaults to on; use --skip-reconnect to disable.)

-s, --silent Be more silent. Print results with a tab as separator,

each row on new line.

--shared-memory-base-name=name

Base name of shared memory.

-S, --socket=name The socket file to use for connection.

--ssl Enable SSL for connection (automatically enabled with

other flags).

--ssl-ca=name CA file in PEM format (check OpenSSL docs, implies

--ssl).

--ssl-capath=name CA directory (check OpenSSL docs, implies --ssl).

--ssl-cert=name X509 cert in PEM format (implies --ssl).

--ssl-cipher=name SSL cipher to use (implies --ssl).

--ssl-key=name X509 key in PEM format (implies --ssl).

--ssl-crl=name Certificate revocation list (implies --ssl).

--ssl-crlpath=name Certificate revocation list path (implies --ssl).

--ssl-verify-server-cert

Verify server's "Common Name" in its cert against

hostname used when connecting. This option is disabled by

default.

-t, --table Output in table format.

--tee=name Append everything into outfile. See interactive help (\h)

also. Does not work in batch mode. Disable with

--disable-tee. This option is disabled by default.

-u, --user=name User for login if not current user.

-U, --safe-updates Only allow UPDATE and DELETE that uses keys.

-U, --i-am-a-dummy Synonym for option --safe-updates, -U.

-v, --verbose Write more. (-v -v -v gives the table output format).

-V, --version Output version information and exit.

-w, --wait Wait and retry if connection is down.

--connect-timeout=# Number of seconds before connection timeout.

--max-allowed-packet=#

The maximum packet length to send to or receive from

server.

--net-buffer-length=#

The buffer size for TCP/IP and socket communication.

--select-limit=# Automatic limit for SELECT when using --safe-updates.

--max-join-size=# Automatic limit for rows in a join when using

--safe-updates.

--secure-auth Refuse client connecting to server if it uses old

(pre-4.1.1) protocol.

--server-arg=name Send embedded server this as a parameter.

--show-warnings Show warnings after every statement.

--plugin-dir=name Directory for client-side plugins.

--default-auth=name Default authentication client-side plugin to use.

--binary-mode By default, ASCII '\0' is disallowed and '\r\n' is

translated to '\n'. This switch turns off both features,

and also turns off parsing of all clientcommands except

\C and DELIMITER, in non-interactive mode (for input

piped to mysql or loaded using the 'source' command).

This is necessary when processing output from mysqlbinlog

that may contain blobs.

Variables (--variable-name=value)

and boolean options {FALSE|TRUE} Value (after reading options)

--------------------------------- ----------------------------------------

abort-source-on-error FALSE

auto-rehash FALSE

auto-vertical-output FALSE

character-sets-dir (No default value)

column-type-info FALSE

comments FALSE

compress FALSE

debug-check FALSE

debug-info FALSE

database (No default value)

default-character-set auto

delimiter ;

vertical FALSE

force FALSE

named-commands FALSE

ignore-spaces FALSE

init-command (No default value)

local-infile FALSE

no-beep FALSE

host (No default value)

html FALSE

xml FALSE

line-numbers TRUE

unbuffered FALSE

column-names TRUE

sigint-ignore FALSE

port 3306

progress-reports FALSE

prompt \N [\d]>

quick FALSE

raw FALSE

reconnect FALSE

shared-memory-base-name (No default value)

socket C:/xampp/mysql/mysql.sock

ssl FALSE

ssl-ca (No default value)

ssl-capath (No default value)

ssl-cert (No default value)

ssl-cipher (No default value)

ssl-key (No default value)

ssl-crl (No default value)

ssl-crlpath (No default value)

ssl-verify-server-cert FALSE

table FALSE

user root

safe-updates FALSE

i-am-a-dummy FALSE

connect-timeout 0

max-allowed-packet 16777216

net-buffer-length 16384

select-limit 1000

max-join-size 1000000

secure-auth FALSE

show-warnings FALSE

plugin-dir (No default value)

default-auth (No default value)

binary-mode FALSE

731816@128-IMAC27 c:\xampp

# mysql -u root -p

Enter password:

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

Your MariaDB connection id is 6

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 |

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

| csd22014w18 |

| csd2204w18 |

| information\_schema |

| mysql |

| performance\_schema |

| phpmyadmin |

| test |

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

7 rows in set (0.00 sec)

MariaDB [(none)]> use csd2204w18;

Database changed

MariaDB [csd2204w18]> show tables;

Empty set (0.00 sec)

MariaDB [csd2204w18]> 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 (0.20 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `countries`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]>

MariaDB [csd2204w18]> -- --------------------------------------------------------

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Table structure for table `departments`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 (0.10 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `departments`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]>

MariaDB [csd2204w18]> -- --------------------------------------------------------

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Table structure for table `employees`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 (0.08 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `employees`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]>

MariaDB [csd2204w18]> -- --------------------------------------------------------

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Table structure for table `job\_history`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 (0.22 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `job\_history`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]>

MariaDB [csd2204w18]> -- --------------------------------------------------------

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Table structure for table `jobs`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 (0.10 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `jobs`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]>

MariaDB [csd2204w18]> -- --------------------------------------------------------

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Table structure for table `locations`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 (0.09 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `locations`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]>

MariaDB [csd2204w18]> -- --------------------------------------------------------

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Table structure for table `regions`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 (0.06 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]> -- Dumping data for table `regions`

MariaDB [csd2204w18]> --

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> 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 [csd2204w18]> show tables;

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

| Tables\_in\_csd2204w18 |

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

| countries |

| departments |

| employees |

| job\_history |

| jobs |

| locations |

| regions |

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

7 rows in set (0.00 sec)

MariaDB [csd2204w18]> set @n1=10;

Query OK, 0 rows affected (0.02 sec)

MariaDB [csd2204w18]> select @n1;

+------+

| @n1 |

+------+

| 10 |

+------+

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select price from products where name like 'Memory' into Mprice;

ERROR 1327 (42000): Undeclared variable: Mprice

MariaDB [csd2204w18]> set @Mprice;

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 [csd2204w18]> set @Mprice=120;

Query OK, 0 rows affected (0.00 sec)

MariaDB [csd2204w18]> select price from products where name like 'Memory' into Mprice;

ERROR 1327 (42000): Undeclared variable: Mprice

MariaDB [csd2204w18]> select price from products where name like 'Memory' into Mprice;select \* from products;

ERROR 1327 (42000): Undeclared variable: Mprice

ERROR 1146 (42S02): Table 'csd2204w18.products' doesn't exist

MariaDB [csd2204w18]> select \* from products;

ERROR 1146 (42S02): Table 'csd2204w18.products' doesn't exist

MariaDB [csd2204w18]>

MariaDB [csd2204w18]>

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> CREATE TABLE manu(

-> Code INTEGER(3) AUTO\_INCREMENT ,

-> Name VARCHAR(50) NOT NULL,

-> CONSTRAINT PK\_MANU PRIMARY KEY (CODE)

-> );

Query OK, 0 rows affected (0.73 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('Sony');

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('Creative Labs');

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('Hewlett-Packard');

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('Iomega');

Query OK, 1 row affected (0.11 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('Fujitsu');

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('Winchester');

Query OK, 1 row affected (0.09 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES('moxDroid Labs Inc');

Query OK, 1 row affected (0.11 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES("Dell");

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> INSERT INTO manu(Name) VALUES("Bell Labs");

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> CREATE TABLE Products (

-> Code INTEGER(3) AUTO\_INCREMENT,

-> Name VARCHAR(255) NOT NULL ,

-> Price DECIMAL NOT NULL ,

-> Manufacturer INTEGER(3),

-> CONSTRAINT PK\_PRODUCTS PRIMARY KEY (Code),

-> CONSTRAINT FK\_PRODUCTS FOREIGN KEY (Manufacturer) REFERENCES manu(Code)

-> );

Query OK, 0 rows affected (0.50 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Hard drive',240,5);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Memory',120,6);

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('ZIP drive',150,4);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Floppy disk',5,6);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Monitor',240,1);

Query OK, 1 row affected (0.09 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('DVD drive',180,2);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('CD drive',90,2);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Printer',270,3);

Query OK, 1 row affected (0.09 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Toner cartridge',66,3);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('DVD burner',180,2);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Printer',40.00,7);

Query OK, 1 row affected (0.05 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('Toner cartridge',54.00,7);

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> INSERT INTO Products(Name,Price,Manufacturer) VALUES('DVD burner',78.00,7);

Query OK, 1 row affected (0.11 sec)

MariaDB [csd2204w18]> select price from products where name like 'Memory' into @Mprice;

Query OK, 1 row affected (0.00 sec)

MariaDB [csd2204w18]> select @Mprice;

+---------+

| @Mprice |

+---------+

| 120 |

+---------+

1 row in set (0.02 sec)

MariaDB [csd2204w18]> select @Mprice=price from products where name like 'Memory';

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

| @Mprice=price |

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

| 1 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select \* from products;

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

| Code | Name | Price | Manufacturer |

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

| 1 | Hard drive | 240 | 5 |

| 2 | Memory | 120 | 6 |

| 3 | ZIP drive | 150 | 4 |

| 4 | Floppy disk | 5 | 6 |

| 5 | Monitor | 240 | 1 |

| 6 | DVD drive | 180 | 2 |

| 7 | CD drive | 90 | 2 |

| 8 | Printer | 270 | 3 |

| 9 | Toner cartridge | 66 | 3 |

| 10 | DVD burner | 180 | 2 |

| 11 | Printer | 40 | 7 |

| 12 | Toner cartridge | 54 | 7 |

| 13 | DVD burner | 78 | 7 |

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

13 rows in set (0.02 sec)

MariaDB [csd2204w18]> select @Mprice=price from products where name like 'Printer';

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

| @Mprice=price |

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

| 0 |

| 0 |

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

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> select @n1;

+------+

| @n1 |

+------+

| 10 |

+------+

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select @Pprice=price from products where name like 'Printer';

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

| @Pprice=price |

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

| NULL |

| NULL |

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

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> CREATE TABLE animals (

-> id MEDIUMINT NOT NULL AUTO\_INCREMENT,

-> name CHAR(30) NOT NULL,

-> CONSTRAINT PK\_animals PRIMARY KEY (id)

-> );

Query OK, 0 rows affected (0.22 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> INSERT INTO animals (name) VALUES

-> ('dog'),('cat'),('penguin'),

-> ('lax'),('whale'),('ostrich');

Query OK, 6 rows affected (0.03 sec)

Records: 6 Duplicates: 0 Warnings: 0

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> SELECT \* FROM animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

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

6 rows in set (0.00 sec)

MariaDB [csd2204w18]>

MariaDB [csd2204w18]> CREATE TABLE pet (

-> name VARCHAR(20),

-> owner VARCHAR(20),

-> species VARCHAR(20),

-> sex CHAR(1),

-> birth DATE,

-> death DATE);

Query OK, 0 rows affected (0.23 sec)

MariaDB [csd2204w18]> SELECT \* from animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

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

6 rows in set (0.00 sec)

MariaDB [csd2204w18]> insert into animals values(7,'Kangaroo');

Query OK, 1 row affected (0.03 sec)

MariaDB [csd2204w18]> SELECT \* from animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

| 7 | Kangaroo |

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

7 rows in set (0.00 sec)

MariaDB [csd2204w18]> insert into animals values(10,'COw');

Query OK, 1 row affected (0.06 sec)

MariaDB [csd2204w18]> SELECT \* from animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

| 7 | Kangaroo |

| 10 | COw |

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

8 rows in set (0.00 sec)

MariaDB [csd2204w18]> insert into animals(name) values('Tiger');

Query OK, 1 row affected (0.03 sec)

MariaDB [csd2204w18]> SELECT \* from animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

| 7 | Kangaroo |

| 10 | COw |

| 11 | Tiger |

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

9 rows in set (0.00 sec)

MariaDB [csd2204w18]> select last\_insert\_id();

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

| last\_insert\_id() |

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

| 11 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> insert into animals(name) values('Panda');

Query OK, 1 row affected (0.19 sec)

MariaDB [csd2204w18]> SELECT \* from animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

| 7 | Kangaroo |

| 10 | COw |

| 11 | Tiger |

| 12 | Panda |

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

10 rows in set (0.00 sec)

MariaDB [csd2204w18]> SELECT \* from animals;

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

| id | name |

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

| 1 | dog |

| 2 | cat |

| 3 | penguin |

| 4 | lax |

| 5 | whale |

| 6 | ostrich |

| 7 | Kangaroo |

| 10 | COw |

| 11 | Tiger |

| 12 | Panda |

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

10 rows in set (0.00 sec)

MariaDB [csd2204w18]> select last\_insert\_id();

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

| last\_insert\_id() |

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

| 12 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select name,price from products where name='monitor' into outfile 'C:/XAMPP/result.txt';

Query OK, 1 row affected (0.00 sec)

MariaDB [csd2204w18]> tee 'C:/XAMPP/Database.txt';

mysql: Can't create/write to file ''C:/XAMPP/Database.txt'' (Errcode: 22 "Invalid argument")

Error logging to file ''C:/XAMPP/Database.txt''

MariaDB [csd2204w18]> tee 'C:/XAMPP/Day8.txt';

mysql: Can't create/write to file ''C:/XAMPP/Day8.txt'' (Errcode: 22 "Invalid argument")

Error logging to file ''C:/XAMPP/Day8.txt''

MariaDB [csd2204w18]> desc employee;

ERROR 1146 (42S02): Table 'csd2204w18.employee' doesn't exist

MariaDB [csd2204w18]> show tables;

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

| Tables\_in\_csd2204w18 |

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

| animals |

| countries |

| departments |

| employees |

| job\_history |

| jobs |

| locations |

| manu |

| pet |

| products |

| regions |

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

11 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 (0.02 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> tee 'C:/XAMPP/Day8.txt'

mysql: Can't create/write to file ''C:/XAMPP/Day8.txt'' (Errcode: 22 "Invalid argument")

Error logging to file ''C:/XAMPP/Day8.txt''

MariaDB [csd2204w18]> tee C:/XAMPP/Day8.txt

Logging to file 'C:/XAMPP/Day8.txt'

MariaDB [csd2204w18]> 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 (0.00 sec)

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary > (select salary from employees where last\_name='Bull');

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

| employee\_id | first\_name | last\_name | salary |

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

| 100 | Steven | King | 24000.00 |

| 101 | Neena | Kochhar | 17000.00 |

| 102 | Lex | De Haan | 17000.00 |

| 103 | Alexander | Hunold | 9000.00 |

| 104 | Bruce | Ernst | 6000.00 |

| 105 | David | Austin | 4800.00 |

| 106 | Valli | Pataballa | 4800.00 |

| 107 | Diana | Lorentz | 4200.00 |

| 108 | Nancy | Greenberg | 12000.00 |

| 109 | Daniel | Faviet | 9000.00 |

| 110 | John | Chen | 8200.00 |

| 111 | Ismael | Sciarra | 7700.00 |

| 112 | Jose Manuel | Urman | 7800.00 |

| 113 | Luis | Popp | 6900.00 |

| 114 | Den | Raphaely | 11000.00 |

| 120 | Matthew | Weiss | 8000.00 |

| 121 | Adam | Fripp | 8200.00 |

| 122 | Payam | Kaufling | 7900.00 |

| 123 | Shanta | Vollman | 6500.00 |

| 124 | Kevin | Mourgos | 5800.00 |

| 145 | John | Russell | 14000.00 |

| 146 | Karen | Partners | 13500.00 |

| 147 | Alberto | Errazuriz | 12000.00 |

| 148 | Gerald | Cambrault | 11000.00 |

| 149 | Eleni | Zlotkey | 10500.00 |

| 150 | Peter | Tucker | 10000.00 |

| 151 | David | Bernstein | 9500.00 |

| 152 | Peter | Hall | 9000.00 |

| 153 | Christopher | Olsen | 8000.00 |

| 154 | Nanette | Cambrault | 7500.00 |

| 155 | Oliver | Tuvault | 7000.00 |

| 156 | Janette | King | 10000.00 |

| 157 | Patrick | Sully | 9500.00 |

| 158 | Allan | McEwen | 9000.00 |

| 159 | Lindsey | Smith | 8000.00 |

| 160 | Louise | Doran | 7500.00 |

| 161 | Sarath | Sewall | 7000.00 |

| 162 | Clara | Vishney | 10500.00 |

| 163 | Danielle | Greene | 9500.00 |

| 164 | Mattea | Marvins | 7200.00 |

| 165 | David | Lee | 6800.00 |

| 166 | Sundar | Ande | 6400.00 |

| 167 | Amit | Banda | 6200.00 |

| 168 | Lisa | Ozer | 11500.00 |

| 169 | Harrison | Bloom | 10000.00 |

| 170 | Tayler | Fox | 9600.00 |

| 171 | William | Smith | 7400.00 |

| 172 | Elizabeth | Bates | 7300.00 |

| 173 | Sundita | Kumar | 6100.00 |

| 174 | Ellen | Abel | 11000.00 |

| 175 | Alyssa | Hutton | 8800.00 |

| 176 | Jonathon | Taylor | 8600.00 |

| 177 | Jack | Livingston | 8400.00 |

| 178 | Kimberely | Grant | 7000.00 |

| 179 | Charles | Johnson | 6200.00 |

| 184 | Nandita | Sarchand | 4200.00 |

| 200 | Jennifer | Whalen | 4400.00 |

| 201 | Michael | Hartstein | 13000.00 |

| 202 | Pat | Fay | 6000.00 |

| 203 | Susan | Mavris | 6500.00 |

| 204 | Hermann | Baer | 10000.00 |

| 205 | Shelley | Higgins | 12000.00 |

| 206 | William | Gietz | 8300.00 |

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

63 rows in set (0.00 sec)

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary < (select salary from employees where last\_name='Bull');

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

| employee\_id | first\_name | last\_name | salary |

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

| 115 | Alexander | Khoo | 3100.00 |

| 116 | Shelli | Baida | 2900.00 |

| 117 | Sigal | Tobias | 2800.00 |

| 118 | Guy | Himuro | 2600.00 |

| 119 | Karen | Colmenares | 2500.00 |

| 125 | Julia | Nayer | 3200.00 |

| 126 | Irene | Mikkilineni | 2700.00 |

| 127 | James | Landry | 2400.00 |

| 128 | Steven | Markle | 2200.00 |

| 129 | Laura | Bissot | 3300.00 |

| 130 | Mozhe | Atkinson | 2800.00 |

| 131 | James | Marlow | 2500.00 |

| 132 | TJ | Olson | 2100.00 |

| 133 | Jason | Mallin | 3300.00 |

| 134 | Michael | Rogers | 2900.00 |

| 135 | Ki | Gee | 2400.00 |

| 136 | Hazel | Philtanker | 2200.00 |

| 137 | Renske | Ladwig | 3600.00 |

| 138 | Stephen | Stiles | 3200.00 |

| 139 | John | Seo | 2700.00 |

| 140 | Joshua | Patel | 2500.00 |

| 141 | Trenna | Rajs | 3500.00 |

| 142 | Curtis | Davies | 3100.00 |

| 143 | Randall | Matos | 2600.00 |

| 144 | Peter | Vargas | 2500.00 |

| 180 | Winston | Taylor | 3200.00 |

| 181 | Jean | Fleaur | 3100.00 |

| 182 | Martha | Sullivan | 2500.00 |

| 183 | Girard | Geoni | 2800.00 |

| 186 | Julia | Dellinger | 3400.00 |

| 187 | Anthony | Cabrio | 3000.00 |

| 188 | Kelly | Chung | 3800.00 |

| 189 | Jennifer | Dilly | 3600.00 |

| 190 | Timothy | Gates | 2900.00 |

| 191 | Randall | Perkins | 2500.00 |

| 192 | Sarah | Bell | 4000.00 |

| 193 | Britney | Everett | 3900.00 |

| 194 | Samuel | McCain | 3200.00 |

| 195 | Vance | Jones | 2800.00 |

| 196 | Alana | Walsh | 3100.00 |

| 197 | Kevin | Feeney | 3000.00 |

| 198 | Donald | OConnell | 2600.00 |

| 199 | Douglas | Grant | 2600.00 |

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

43 rows in set (0.00 sec)

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary = (select salary from employees where last\_name='Bull');

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

| employee\_id | first\_name | last\_name | salary |

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

| 185 | Alexis | Bull | 4100.00 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary <> (select salary from employees where last\_name='Bull');

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

| employee\_id | first\_name | last\_name | salary |

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

| 100 | Steven | King | 24000.00 |

| 101 | Neena | Kochhar | 17000.00 |

| 102 | Lex | De Haan | 17000.00 |

| 103 | Alexander | Hunold | 9000.00 |

| 104 | Bruce | Ernst | 6000.00 |

| 105 | David | Austin | 4800.00 |

| 106 | Valli | Pataballa | 4800.00 |

| 107 | Diana | Lorentz | 4200.00 |

| 108 | Nancy | Greenberg | 12000.00 |

| 109 | Daniel | Faviet | 9000.00 |

| 110 | John | Chen | 8200.00 |

| 111 | Ismael | Sciarra | 7700.00 |

| 112 | Jose Manuel | Urman | 7800.00 |

| 113 | Luis | Popp | 6900.00 |

| 114 | Den | Raphaely | 11000.00 |

| 115 | Alexander | Khoo | 3100.00 |

| 116 | Shelli | Baida | 2900.00 |

| 117 | Sigal | Tobias | 2800.00 |

| 118 | Guy | Himuro | 2600.00 |

| 119 | Karen | Colmenares | 2500.00 |

| 120 | Matthew | Weiss | 8000.00 |

| 121 | Adam | Fripp | 8200.00 |

| 122 | Payam | Kaufling | 7900.00 |

| 123 | Shanta | Vollman | 6500.00 |

| 124 | Kevin | Mourgos | 5800.00 |

| 125 | Julia | Nayer | 3200.00 |

| 126 | Irene | Mikkilineni | 2700.00 |

| 127 | James | Landry | 2400.00 |

| 128 | Steven | Markle | 2200.00 |

| 129 | Laura | Bissot | 3300.00 |

| 130 | Mozhe | Atkinson | 2800.00 |

| 131 | James | Marlow | 2500.00 |

| 132 | TJ | Olson | 2100.00 |

| 133 | Jason | Mallin | 3300.00 |

| 134 | Michael | Rogers | 2900.00 |

| 135 | Ki | Gee | 2400.00 |

| 136 | Hazel | Philtanker | 2200.00 |

| 137 | Renske | Ladwig | 3600.00 |

| 138 | Stephen | Stiles | 3200.00 |

| 139 | John | Seo | 2700.00 |

| 140 | Joshua | Patel | 2500.00 |

| 141 | Trenna | Rajs | 3500.00 |

| 142 | Curtis | Davies | 3100.00 |

| 143 | Randall | Matos | 2600.00 |

| 144 | Peter | Vargas | 2500.00 |

| 145 | John | Russell | 14000.00 |

| 146 | Karen | Partners | 13500.00 |

| 147 | Alberto | Errazuriz | 12000.00 |

| 148 | Gerald | Cambrault | 11000.00 |

| 149 | Eleni | Zlotkey | 10500.00 |

| 150 | Peter | Tucker | 10000.00 |

| 151 | David | Bernstein | 9500.00 |

| 152 | Peter | Hall | 9000.00 |

| 153 | Christopher | Olsen | 8000.00 |

| 154 | Nanette | Cambrault | 7500.00 |

| 155 | Oliver | Tuvault | 7000.00 |

| 156 | Janette | King | 10000.00 |

| 157 | Patrick | Sully | 9500.00 |

| 158 | Allan | McEwen | 9000.00 |

| 159 | Lindsey | Smith | 8000.00 |

| 160 | Louise | Doran | 7500.00 |

| 161 | Sarath | Sewall | 7000.00 |

| 162 | Clara | Vishney | 10500.00 |

| 163 | Danielle | Greene | 9500.00 |

| 164 | Mattea | Marvins | 7200.00 |

| 165 | David | Lee | 6800.00 |

| 166 | Sundar | Ande | 6400.00 |

| 167 | Amit | Banda | 6200.00 |

| 168 | Lisa | Ozer | 11500.00 |

| 169 | Harrison | Bloom | 10000.00 |

| 170 | Tayler | Fox | 9600.00 |

| 171 | William | Smith | 7400.00 |

| 172 | Elizabeth | Bates | 7300.00 |

| 173 | Sundita | Kumar | 6100.00 |

| 174 | Ellen | Abel | 11000.00 |

| 175 | Alyssa | Hutton | 8800.00 |

| 176 | Jonathon | Taylor | 8600.00 |

| 177 | Jack | Livingston | 8400.00 |

| 178 | Kimberely | Grant | 7000.00 |

| 179 | Charles | Johnson | 6200.00 |

| 180 | Winston | Taylor | 3200.00 |

| 181 | Jean | Fleaur | 3100.00 |

| 182 | Martha | Sullivan | 2500.00 |

| 183 | Girard | Geoni | 2800.00 |

| 184 | Nandita | Sarchand | 4200.00 |

| 186 | Julia | Dellinger | 3400.00 |

| 187 | Anthony | Cabrio | 3000.00 |

| 188 | Kelly | Chung | 3800.00 |

| 189 | Jennifer | Dilly | 3600.00 |

| 190 | Timothy | Gates | 2900.00 |

| 191 | Randall | Perkins | 2500.00 |

| 192 | Sarah | Bell | 4000.00 |

| 193 | Britney | Everett | 3900.00 |

| 194 | Samuel | McCain | 3200.00 |

| 195 | Vance | Jones | 2800.00 |

| 196 | Alana | Walsh | 3100.00 |

| 197 | Kevin | Feeney | 3000.00 |

| 198 | Donald | OConnell | 2600.00 |

| 199 | Douglas | Grant | 2600.00 |

| 200 | Jennifer | Whalen | 4400.00 |

| 201 | Michael | Hartstein | 13000.00 |

| 202 | Pat | Fay | 6000.00 |

| 203 | Susan | Mavris | 6500.00 |

| 204 | Hermann | Baer | 10000.00 |

| 205 | Shelley | Higgins | 12000.00 |

| 206 | William | Gietz | 8300.00 |

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

106 rows in set (0.00 sec)

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary > (select salary from employees where first\_name like 'n%');

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary < (select salary from employees where first\_name like 'n%');

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select employee\_id,first\_name,last\_name,salary from employees where salary < (select salary from employees where first\_name like 'n%');

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> show tables;

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

| Tables\_in\_csd2204w18 |

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

| animals |

| countries |

| departments |

| employees |

| job\_history |

| jobs |

| locations |

| manu |

| pet |

| products |

| regions |

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

11 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 (0.02 sec)

MariaDB [csd2204w18]> select \* from department;

ERROR 1146 (42S02): Table 'csd2204w18.department' doesn't exist

MariaDB [csd2204w18]> 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 [csd2204w18]> select e.first\_name,e.last\_name from employees e join departments d on e.department\_id=d.department\_id;

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

| first\_name | last\_name |

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

| Steven | King |

| 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 |

| 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 |

| 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 |

| Michael | Hartstein |

| Pat | Fay |

| Susan | Mavris |

| Hermann | Baer |

| Shelley | Higgins |

| William | Gietz |

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

106 rows in set (0.00 sec)

MariaDB [csd2204w18]> select d.departmente.first\_name,e.last\_name from employees e join departments d on e.department\_id=d.department\_id;

ERROR 1054 (42S22): Unknown column 'd.departmente.first\_name' in 'field list'

MariaDB [csd2204w18]> select d.department\_id,e.first\_name,e.last\_name from employees e join departments d on e.department\_id=d.department\_id;

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

| department\_id | first\_name | last\_name |

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

| 90 | Steven | King |

| 90 | Neena | Kochhar |

| 90 | Lex | De Haan |

| 60 | Alexander | Hunold |

| 60 | Bruce | Ernst |

| 60 | David | Austin |

| 60 | Valli | Pataballa |

| 60 | Diana | Lorentz |

| 100 | Nancy | Greenberg |

| 100 | Daniel | Faviet |

| 100 | John | Chen |

| 100 | Ismael | Sciarra |

| 100 | Jose Manuel | Urman |

| 100 | Luis | Popp |

| 30 | Den | Raphaely |

| 30 | Alexander | Khoo |

| 30 | Shelli | Baida |

| 30 | Sigal | Tobias |

| 30 | Guy | Himuro |

| 30 | Karen | Colmenares |

| 50 | 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 |

| 80 | John | Russell |

| 80 | Karen | Partners |

| 80 | Alberto | Errazuriz |

| 80 | Gerald | Cambrault |

| 80 | Eleni | Zlotkey |

| 80 | Peter | Tucker |

| 80 | David | Bernstein |

| 80 | Peter | Hall |

| 80 | Christopher | Olsen |

| 80 | Nanette | Cambrault |

| 80 | Oliver | Tuvault |

| 80 | Janette | King |

| 80 | Patrick | Sully |

| 80 | Allan | McEwen |

| 80 | Lindsey | Smith |

| 80 | Louise | Doran |

| 80 | Sarath | Sewall |

| 80 | Clara | Vishney |

| 80 | Danielle | Greene |

| 80 | Mattea | Marvins |

| 80 | David | Lee |

| 80 | Sundar | Ande |

| 80 | Amit | Banda |

| 80 | Lisa | Ozer |

| 80 | Harrison | Bloom |

| 80 | Tayler | Fox |

| 80 | William | Smith |

| 80 | Elizabeth | Bates |

| 80 | Sundita | Kumar |

| 80 | Ellen | Abel |

| 80 | Alyssa | Hutton |

| 80 | Jonathon | Taylor |

| 80 | Jack | Livingston |

| 80 | Charles | Johnson |

| 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 |

| 10 | Jennifer | Whalen |

| 20 | Michael | Hartstein |

| 20 | Pat | Fay |

| 40 | Susan | Mavris |

| 70 | Hermann | Baer |

| 110 | Shelley | Higgins |

| 110 | William | Gietz |

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

106 rows in set (0.00 sec)

MariaDB [csd2204w18]> select d.department\_id,e.first\_name,e.last\_name from employees e inner join departments d on e.department\_id=d.department\_id;

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

| department\_id | first\_name | last\_name |

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

| 90 | Steven | King |

| 90 | Neena | Kochhar |

| 90 | Lex | De Haan |

| 60 | Alexander | Hunold |

| 60 | Bruce | Ernst |

| 60 | David | Austin |

| 60 | Valli | Pataballa |

| 60 | Diana | Lorentz |

| 100 | Nancy | Greenberg |

| 100 | Daniel | Faviet |

| 100 | John | Chen |

| 100 | Ismael | Sciarra |

| 100 | Jose Manuel | Urman |

| 100 | Luis | Popp |

| 30 | Den | Raphaely |

| 30 | Alexander | Khoo |

| 30 | Shelli | Baida |

| 30 | Sigal | Tobias |

| 30 | Guy | Himuro |

| 30 | Karen | Colmenares |

| 50 | 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 |

| 80 | John | Russell |

| 80 | Karen | Partners |

| 80 | Alberto | Errazuriz |

| 80 | Gerald | Cambrault |

| 80 | Eleni | Zlotkey |

| 80 | Peter | Tucker |

| 80 | David | Bernstein |

| 80 | Peter | Hall |

| 80 | Christopher | Olsen |

| 80 | Nanette | Cambrault |

| 80 | Oliver | Tuvault |

| 80 | Janette | King |

| 80 | Patrick | Sully |

| 80 | Allan | McEwen |

| 80 | Lindsey | Smith |

| 80 | Louise | Doran |

| 80 | Sarath | Sewall |

| 80 | Clara | Vishney |

| 80 | Danielle | Greene |

| 80 | Mattea | Marvins |

| 80 | David | Lee |

| 80 | Sundar | Ande |

| 80 | Amit | Banda |

| 80 | Lisa | Ozer |

| 80 | Harrison | Bloom |

| 80 | Tayler | Fox |

| 80 | William | Smith |

| 80 | Elizabeth | Bates |

| 80 | Sundita | Kumar |

| 80 | Ellen | Abel |

| 80 | Alyssa | Hutton |

| 80 | Jonathon | Taylor |

| 80 | Jack | Livingston |

| 80 | Charles | Johnson |

| 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 |

| 10 | Jennifer | Whalen |

| 20 | Michael | Hartstein |

| 20 | Pat | Fay |

| 40 | Susan | Mavris |

| 70 | Hermann | Baer |

| 110 | Shelley | Higgins |

| 110 | William | Gietz |

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

106 rows in set (0.00 sec)

MariaDB [csd2204w18]> select department\_id from departments where department\_name like 'IT';

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

| department\_id |

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

| 60 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name,last\_name from employees where deprtment\_id=(select department\_id from departments where department\_name like 'IT');

ERROR 1054 (42S22): Unknown column 'deprtment\_id' in 'where clause'

MariaDB [csd2204w18]> select first\_name,last\_name from employees where department\_id=(select department\_id from departments where department\_name like 'IT');

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

| first\_name | last\_name |

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

| Alexander | Hunold |

| Bruce | Ernst |

| David | Austin |

| Valli | Pataballa |

| Diana | Lorentz |

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

5 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name,last\_name from employees where department\_id=(select department\_id from departments where department\_name not like 'IT');

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select first\_name,last\_name from employees where department\_id !=(select department\_id from departments where department\_name like 'IT');

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

| first\_name | last\_name |

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

| Steven | King |

| Neena | Kochhar |

| Lex | De Haan |

| 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 |

| 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 |

| Michael | Hartstein |

| Pat | Fay |

| Susan | Mavris |

| Hermann | Baer |

| Shelley | Higgins |

| William | Gietz |

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

102 rows in set (0.00 sec)

MariaDB [csd2204w18]> show tables;

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

| Tables\_in\_csd2204w18 |

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

| animals |

| countries |

| departments |

| employees |

| job\_history |

| jobs |

| locations |

| manu |

| pet |

| products |

| regions |

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

11 rows in set (0.00 sec)

MariaDB [csd2204w18]> select \* from countries;

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

| COUNTRY\_ID | COUNTRY\_NAME | REGION\_ID |

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

| 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 |

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

25 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> 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 [csd2204w18]> 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 [csd2204w18]> select country\_id from locations where country\_id='US';

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

| country\_id |

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

| US |

| US |

| US |

| US |

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

4 rows in set (0.00 sec)

MariaDB [csd2204w18]> select location\_id from locations where country\_id='US';

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

| location\_id |

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

| 1400 |

| 1500 |

| 1600 |

| 1700 |

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

4 rows in set (0.00 sec)

MariaDB [csd2204w18]> select manager\_id from employees where locatio\_id=(select location\_id from locations where country\_id='US');

ERROR 1054 (42S22): Unknown column 'locatio\_id' in 'where clause'

MariaDB [csd2204w18]> select manager\_id from employees where location\_id=(select location\_id from locations where country\_id='US');

ERROR 1054 (42S22): Unknown column 'location\_id' in 'where clause'

MariaDB [csd2204w18]> select manager\_id from depertments where location\_id=(select location\_id from locations where country\_id='US');

ERROR 1146 (42S02): Table 'csd2204w18.depertments' doesn't exist

MariaDB [csd2204w18]> select manager\_id from departments where location\_id=(select location\_id from locations where country\_id='US');

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select manager\_id from depertments where location\_id in (select location\_id from locations where country\_id='US');

ERROR 1146 (42S02): Table 'csd2204w18.depertments' doesn't exist

MariaDB [csd2204w18]> select manager\_id from departments where location\_id in (select location\_id from locations where country\_id='US');

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

| manager\_id |

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

| 103 |

| 121 |

| 200 |

| 114 |

| 100 |

| 108 |

| 205 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

| 0 |

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

23 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name,last\_name from employees where manager\_id <>0 and department\_id in (select department\_id from departments where location) (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 '(select location\_id from locations where country\_id='US')' at line 1

MariaDB [csd2204w18]> select first\_name,last\_name from employees where manager\_id <>0 and 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 |

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

| Alexander | Hunold |

| Bruce | Ernst |

| David | Austin |

| Valli | Pataballa |

| Diana | Lorentz |

| 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 |

| 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 |

| Den | Raphaely |

| Alexander | Khoo |

| Shelli | Baida |

| Sigal | Tobias |

| Guy | Himuro |

| Karen | Colmenares |

| Neena | Kochhar |

| Lex | De Haan |

| Nancy | Greenberg |

| Daniel | Faviet |

| John | Chen |

| Ismael | Sciarra |

| Jose Manuel | Urman |

| Luis | Popp |

| Shelley | Higgins |

| William | Gietz |

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

67 rows in set (0.02 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> 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 [csd2204w18]> 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)

ERROR: No query specified

MariaDB [csd2204w18]> select first\_name,last\_name from employees where manager\_id !=0;

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

| 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 |

| 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 |

| Michael | Hartstein |

| Pat | Fay |

| Susan | Mavris |

| Hermann | Baer |

| Shelley | Higgins |

| William | Gietz |

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

106 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name,last\_name from employees where employee\_id in (select manager\_id from employees where manager\_id !=0);

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

| 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 [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select manager\_id from employees where manager\_id !=0);

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

| 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 [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select manager\_id from employees where manager\_id <> 0);

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

| 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 [csd2204w18]> 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 [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select distinct(manager\_id) from employees where manager\_id <> 0);

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

| 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 [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select manager\_id from employees where manager\_id <> 0);

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

| 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 [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select manager\_id from employees);

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

| 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 [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select employee\_id from employee where employee\_id in(select distinct manager\_id from employees));

ERROR 1146 (42S02): Table 'csd2204w18.employee' doesn't exist

MariaDB [csd2204w18]> select first\_name,last\_name,employee\_id,manager\_id from employees where employee\_id in (select employee\_id from employees where employee\_id in(select distinct manager\_id from employees));

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

| 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 [csd2204w18]> 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 [csd2204w18]> select avg(salary) from employees;

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

| avg(salary) |

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

| 6461.682243 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name,last\_name,salary from employees where salary < (select avg(salary) from employees);

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

| first\_name | last\_name | salary |

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

| Bruce | Ernst | 6000.00 |

| David | Austin | 4800.00 |

| Valli | Pataballa | 4800.00 |

| Diana | Lorentz | 4200.00 |

| Alexander | Khoo | 3100.00 |

| Shelli | Baida | 2900.00 |

| Sigal | Tobias | 2800.00 |

| Guy | Himuro | 2600.00 |

| Karen | Colmenares | 2500.00 |

| Kevin | Mourgos | 5800.00 |

| Julia | Nayer | 3200.00 |

| Irene | Mikkilineni | 2700.00 |

| James | Landry | 2400.00 |

| Steven | Markle | 2200.00 |

| Laura | Bissot | 3300.00 |

| Mozhe | Atkinson | 2800.00 |

| James | Marlow | 2500.00 |

| TJ | Olson | 2100.00 |

| Jason | Mallin | 3300.00 |

| Michael | Rogers | 2900.00 |

| Ki | Gee | 2400.00 |

| Hazel | Philtanker | 2200.00 |

| Renske | Ladwig | 3600.00 |

| Stephen | Stiles | 3200.00 |

| John | Seo | 2700.00 |

| Joshua | Patel | 2500.00 |

| Trenna | Rajs | 3500.00 |

| Curtis | Davies | 3100.00 |

| Randall | Matos | 2600.00 |

| Peter | Vargas | 2500.00 |

| Sundar | Ande | 6400.00 |

| Amit | Banda | 6200.00 |

| Sundita | Kumar | 6100.00 |

| Charles | Johnson | 6200.00 |

| Winston | Taylor | 3200.00 |

| Jean | Fleaur | 3100.00 |

| Martha | Sullivan | 2500.00 |

| Girard | Geoni | 2800.00 |

| Nandita | Sarchand | 4200.00 |

| Alexis | Bull | 4100.00 |

| Julia | Dellinger | 3400.00 |

| Anthony | Cabrio | 3000.00 |

| Kelly | Chung | 3800.00 |

| Jennifer | Dilly | 3600.00 |

| Timothy | Gates | 2900.00 |

| Randall | Perkins | 2500.00 |

| Sarah | Bell | 4000.00 |

| Britney | Everett | 3900.00 |

| Samuel | McCain | 3200.00 |

| Vance | Jones | 2800.00 |

| Alana | Walsh | 3100.00 |

| Kevin | Feeney | 3000.00 |

| Donald | OConnell | 2600.00 |

| Douglas | Grant | 2600.00 |

| Jennifer | Whalen | 4400.00 |

| Pat | Fay | 6000.00 |

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

56 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> select now();

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

| now() |

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

| 2018-01-17 10:16:00 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name,last\_name,salary from employees where salary in (select min(salary) from employees);

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

| first\_name | last\_name | salary |

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

| TJ | Olson | 2100.00 |

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

1 row in set (0.02 sec)

MariaDB [csd2204w18]> 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 (0.00 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> select first\_name, last

-> select first\_name, last;

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 first\_name, last' at line 2

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary=(select min\_salary from jobs );

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary in (select min\_salary from jobs );

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

| first\_name | last\_name | salary |

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

| Alexander | Hunold | 9000.00 |

| Bruce | Ernst | 6000.00 |

| Diana | Lorentz | 4200.00 |

| Daniel | Faviet | 9000.00 |

| John | Chen | 8200.00 |

| Karen | Colmenares | 2500.00 |

| Matthew | Weiss | 8000.00 |

| Adam | Fripp | 8200.00 |

| James | Marlow | 2500.00 |

| Joshua | Patel | 2500.00 |

| Peter | Vargas | 2500.00 |

| Peter | Tucker | 10000.00 |

| Peter | Hall | 9000.00 |

| Christopher | Olsen | 8000.00 |

| Janette | King | 10000.00 |

| Allan | McEwen | 9000.00 |

| Lindsey | Smith | 8000.00 |

| Harrison | Bloom | 10000.00 |

| Martha | Sullivan | 2500.00 |

| Nandita | Sarchand | 4200.00 |

| Anthony | Cabrio | 3000.00 |

| Randall | Perkins | 2500.00 |

| Sarah | Bell | 4000.00 |

| Kevin | Feeney | 3000.00 |

| Pat | Fay | 6000.00 |

| Hermann | Baer | 10000.00 |

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

26 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> select first\_name, last\_name,salary from employees where job\_id in (select job\_id from jobs where min\_salary = (select salary from employees) );

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where job\_id in (select job\_id from jobs where min\_salary in (select salary from employees));

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

| first\_name | last\_name | salary |

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

| Michael | Hartstein | 13000.00 |

| 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 |

| Daniel | Faviet | 9000.00 |

| John | Chen | 8200.00 |

| Ismael | Sciarra | 7700.00 |

| Jose Manuel | Urman | 7800.00 |

| Luis | Popp | 6900.00 |

| William | Gietz | 8300.00 |

| Nancy | Greenberg | 12000.00 |

| Shelley | Higgins | 12000.00 |

| Alexander | Khoo | 3100.00 |

| Shelli | Baida | 2900.00 |

| Sigal | Tobias | 2800.00 |

| Guy | Himuro | 2600.00 |

| Karen | Colmenares | 2500.00 |

| Winston | Taylor | 3200.00 |

| Jean | Fleaur | 3100.00 |

| Martha | Sullivan | 2500.00 |

| Girard | Geoni | 2800.00 |

| Nandita | Sarchand | 4200.00 |

| Alexis | Bull | 4100.00 |

| Julia | Dellinger | 3400.00 |

| Anthony | Cabrio | 3000.00 |

| Kelly | Chung | 3800.00 |

| Jennifer | Dilly | 3600.00 |

| Timothy | Gates | 2900.00 |

| Randall | Perkins | 2500.00 |

| Sarah | Bell | 4000.00 |

| Britney | Everett | 3900.00 |

| Samuel | McCain | 3200.00 |

| Vance | Jones | 2800.00 |

| Alana | Walsh | 3100.00 |

| Kevin | Feeney | 3000.00 |

| Donald | OConnell | 2600.00 |

| Douglas | Grant | 2600.00 |

| Den | Raphaely | 11000.00 |

| John | Russell | 14000.00 |

| Karen | Partners | 13500.00 |

| Alberto | Errazuriz | 12000.00 |

| Gerald | Cambrault | 11000.00 |

| Eleni | Zlotkey | 10500.00 |

| Jennifer | Whalen | 4400.00 |

| Alexander | Hunold | 9000.00 |

| Bruce | Ernst | 6000.00 |

| David | Austin | 4800.00 |

| Valli | Pataballa | 4800.00 |

| Diana | Lorentz | 4200.00 |

| Pat | Fay | 6000.00 |

| Susan | Mavris | 6500.00 |

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

78 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where 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 [csd2204w18]> select first\_name, last\_name,salary from employees where salary = (select min\_salary from jobs where job\_id in(select distinct job\_id from employees));

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary = (select min\_salary from jobs where job\_id in(select distinct job\_id from jobs));

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select \* from department;

ERROR 1146 (42S02): Table 'csd2204w18.department' doesn't exist

MariaDB [csd2204w18]> 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 [csd2204w18]> 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 [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees where dept\_id in(select dept\_id from departments where department\_name like 'IT%'));

ERROR 1054 (42S22): Unknown column 'dept\_id' in 'IN/ALL/ANY subquery'

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees where dept\_id in(select deptartment\_id from departments where department\_name like 'IT%'));

ERROR 1054 (42S22): Unknown column 'dept\_id' in 'IN/ALL/ANY subquery'

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees where department\_id in(select deptartment\_id from departments where department\_name like 'IT%'));

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

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees where department\_id in(select department\_id from departments where department\_name like 'IT%'));

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

| 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 |

| 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 |

| Michael | Hartstein | 13000.00 |

| Pat | Fay | 6000.00 |

| Susan | Mavris | 6500.00 |

| Hermann | Baer | 10000.00 |

| Shelley | Higgins | 12000.00 |

| William | Gietz | 8300.00 |

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

58 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees where department\_id in(select deptartment\_id from departments where department\_name like 'IT%'));

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

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees where department\_id in(select department\_id from departments where department\_name like 'IT%'));

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

| 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 |

| 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 |

| Michael | Hartstein | 13000.00 |

| Pat | Fay | 6000.00 |

| Susan | Mavris | 6500.00 |

| Hermann | Baer | 10000.00 |

| Shelley | Higgins | 12000.00 |

| William | Gietz | 8300.00 |

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

58 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees)and department\_id in(select department\_id from departments where department\_name like '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 ')' at line 1

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select avg(salary) from employees)and department\_id in(select department\_id from departments where department\_name like 'IT%');

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

| first\_name | last\_name | salary |

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

| Alexander | Hunold | 9000.00 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary,department\_id from employees where salary > (select avg(salary) from employees)and department\_id in(select department\_id from departments where department\_name like 'IT%');

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

| first\_name | last\_name | salary | department\_id |

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

| Alexander | Hunold | 9000.00 | 60 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select salary from employees where first\_name='Bell');

Empty set (0.00 sec)

MariaDB [csd2204w18]> select \* from employee;

ERROR 1146 (42S02): Table 'csd2204w18.employee' doesn't exist

MariaDB [csd2204w18]> 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 [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select salary from employees where last\_name='Bell');

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

| 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 |

| Alexis | Bull | 4100.00 |

| 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 |

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

64 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> select first\_name, last\_name,salary from employees where salary = (select min(salary) from employees);

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

| first\_name | last\_name | salary |

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

| TJ | Olson | 2100.00 |

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

1 row in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary = (select min(min\_salary) from jobs);

Empty set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary = (select min(min\_salary)+1000 from jobs);

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

| first\_name | last\_name | salary |

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

| Anthony | Cabrio | 3000.00 |

| Kevin | Feeney | 3000.00 |

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

2 rows in set (0.00 sec)

MariaDB [csd2204w18]> 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 [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select min\_salary from jobs where job\_id='SH\_CLERK')) order by 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 ') order by salary' at line 1

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select min\_salary from jobs where job\_id='SH\_CLERK') order by salary;

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

| first\_name | last\_name | salary |

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

| Donald | OConnell | 2600.00 |

| Douglas | Grant | 2600.00 |

| Randall | Matos | 2600.00 |

| Guy | Himuro | 2600.00 |

| Irene | Mikkilineni | 2700.00 |

| John | Seo | 2700.00 |

| Sigal | Tobias | 2800.00 |

| Girard | Geoni | 2800.00 |

| Vance | Jones | 2800.00 |

| Mozhe | Atkinson | 2800.00 |

| Michael | Rogers | 2900.00 |

| Timothy | Gates | 2900.00 |

| Shelli | Baida | 2900.00 |

| Kevin | Feeney | 3000.00 |

| Anthony | Cabrio | 3000.00 |

| Alexander | Khoo | 3100.00 |

| Alana | Walsh | 3100.00 |

| Jean | Fleaur | 3100.00 |

| Curtis | Davies | 3100.00 |

| Winston | Taylor | 3200.00 |

| Julia | Nayer | 3200.00 |

| Stephen | Stiles | 3200.00 |

| Samuel | McCain | 3200.00 |

| Laura | Bissot | 3300.00 |

| Jason | Mallin | 3300.00 |

| Julia | Dellinger | 3400.00 |

| Trenna | Rajs | 3500.00 |

| Renske | Ladwig | 3600.00 |

| Jennifer | Dilly | 3600.00 |

| Kelly | Chung | 3800.00 |

| Britney | Everett | 3900.00 |

| Sarah | Bell | 4000.00 |

| Alexis | Bull | 4100.00 |

| Diana | Lorentz | 4200.00 |

| Nandita | Sarchand | 4200.00 |

| Jennifer | Whalen | 4400.00 |

| Valli | Pataballa | 4800.00 |

| David | Austin | 4800.00 |

| Kevin | Mourgos | 5800.00 |

| Pat | Fay | 6000.00 |

| Bruce | Ernst | 6000.00 |

| Sundita | Kumar | 6100.00 |

| Charles | Johnson | 6200.00 |

| Amit | Banda | 6200.00 |

| Sundar | Ande | 6400.00 |

| Susan | Mavris | 6500.00 |

| Shanta | Vollman | 6500.00 |

| David | Lee | 6800.00 |

| Luis | Popp | 6900.00 |

| Oliver | Tuvault | 7000.00 |

| Kimberely | Grant | 7000.00 |

| Sarath | Sewall | 7000.00 |

| Mattea | Marvins | 7200.00 |

| Elizabeth | Bates | 7300.00 |

| William | Smith | 7400.00 |

| Louise | Doran | 7500.00 |

| Nanette | Cambrault | 7500.00 |

| Ismael | Sciarra | 7700.00 |

| Jose Manuel | Urman | 7800.00 |

| Payam | Kaufling | 7900.00 |

| Lindsey | Smith | 8000.00 |

| Christopher | Olsen | 8000.00 |

| Matthew | Weiss | 8000.00 |

| John | Chen | 8200.00 |

| Adam | Fripp | 8200.00 |

| William | Gietz | 8300.00 |

| Jack | Livingston | 8400.00 |

| Jonathon | Taylor | 8600.00 |

| Alyssa | Hutton | 8800.00 |

| Allan | McEwen | 9000.00 |

| Daniel | Faviet | 9000.00 |

| Alexander | Hunold | 9000.00 |

| Peter | Hall | 9000.00 |

| Patrick | Sully | 9500.00 |

| Danielle | Greene | 9500.00 |

| David | Bernstein | 9500.00 |

| Tayler | Fox | 9600.00 |

| Hermann | Baer | 10000.00 |

| Peter | Tucker | 10000.00 |

| Janette | King | 10000.00 |

| Harrison | Bloom | 10000.00 |

| Eleni | Zlotkey | 10500.00 |

| Clara | Vishney | 10500.00 |

| Den | Raphaely | 11000.00 |

| Ellen | Abel | 11000.00 |

| Gerald | Cambrault | 11000.00 |

| Lisa | Ozer | 11500.00 |

| Shelley | Higgins | 12000.00 |

| Alberto | Errazuriz | 12000.00 |

| Nancy | Greenberg | 12000.00 |

| Michael | Hartstein | 13000.00 |

| Karen | Partners | 13500.00 |

| John | Russell | 14000.00 |

| Lex | De Haan | 17000.00 |

| Neena | Kochhar | 17000.00 |

| Steven | King | 24000.00 |

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

96 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select max\_salary from jobs where job\_id='SH\_CLERK') order by salary;

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

| first\_name | last\_name | salary |

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

| Kevin | Mourgos | 5800.00 |

| Pat | Fay | 6000.00 |

| Bruce | Ernst | 6000.00 |

| Sundita | Kumar | 6100.00 |

| Amit | Banda | 6200.00 |

| Charles | Johnson | 6200.00 |

| Sundar | Ande | 6400.00 |

| Susan | Mavris | 6500.00 |

| Shanta | Vollman | 6500.00 |

| David | Lee | 6800.00 |

| Luis | Popp | 6900.00 |

| Kimberely | Grant | 7000.00 |

| Sarath | Sewall | 7000.00 |

| Oliver | Tuvault | 7000.00 |

| Mattea | Marvins | 7200.00 |

| Elizabeth | Bates | 7300.00 |

| William | Smith | 7400.00 |

| Nanette | Cambrault | 7500.00 |

| Louise | Doran | 7500.00 |

| Ismael | Sciarra | 7700.00 |

| Jose Manuel | Urman | 7800.00 |

| Payam | Kaufling | 7900.00 |

| Lindsey | Smith | 8000.00 |

| Matthew | Weiss | 8000.00 |

| Christopher | Olsen | 8000.00 |

| John | Chen | 8200.00 |

| Adam | Fripp | 8200.00 |

| William | Gietz | 8300.00 |

| Jack | Livingston | 8400.00 |

| Jonathon | Taylor | 8600.00 |

| Alyssa | Hutton | 8800.00 |

| Alexander | Hunold | 9000.00 |

| Daniel | Faviet | 9000.00 |

| Peter | Hall | 9000.00 |

| Allan | McEwen | 9000.00 |

| Patrick | Sully | 9500.00 |

| Danielle | Greene | 9500.00 |

| David | Bernstein | 9500.00 |

| Tayler | Fox | 9600.00 |

| Hermann | Baer | 10000.00 |

| Janette | King | 10000.00 |

| Harrison | Bloom | 10000.00 |

| Peter | Tucker | 10000.00 |

| Eleni | Zlotkey | 10500.00 |

| Clara | Vishney | 10500.00 |

| Ellen | Abel | 11000.00 |

| Gerald | Cambrault | 11000.00 |

| Den | Raphaely | 11000.00 |

| Lisa | Ozer | 11500.00 |

| Shelley | Higgins | 12000.00 |

| Nancy | Greenberg | 12000.00 |

| Alberto | Errazuriz | 12000.00 |

| Michael | Hartstein | 13000.00 |

| Karen | Partners | 13500.00 |

| John | Russell | 14000.00 |

| Lex | De Haan | 17000.00 |

| Neena | Kochhar | 17000.00 |

| Steven | King | 24000.00 |

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

58 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select salary from employees where job\_id='SH\_CLERK') order by salary;

ERROR 1242 (21000): Subquery returns more than 1 row

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > all (select salary from employees where job\_id='SH\_CLERK') order by salary;

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

| first\_name | last\_name | salary |

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

| Jennifer | Whalen | 4400.00 |

| David | Austin | 4800.00 |

| Valli | Pataballa | 4800.00 |

| Kevin | Mourgos | 5800.00 |

| Bruce | Ernst | 6000.00 |

| Pat | Fay | 6000.00 |

| Sundita | Kumar | 6100.00 |

| Amit | Banda | 6200.00 |

| Charles | Johnson | 6200.00 |

| Sundar | Ande | 6400.00 |

| Susan | Mavris | 6500.00 |

| Shanta | Vollman | 6500.00 |

| David | Lee | 6800.00 |

| Luis | Popp | 6900.00 |

| Sarath | Sewall | 7000.00 |

| Oliver | Tuvault | 7000.00 |

| Kimberely | Grant | 7000.00 |

| Mattea | Marvins | 7200.00 |

| Elizabeth | Bates | 7300.00 |

| William | Smith | 7400.00 |

| Nanette | Cambrault | 7500.00 |

| Louise | Doran | 7500.00 |

| Ismael | Sciarra | 7700.00 |

| Jose Manuel | Urman | 7800.00 |

| Payam | Kaufling | 7900.00 |

| Lindsey | Smith | 8000.00 |

| Matthew | Weiss | 8000.00 |

| Christopher | Olsen | 8000.00 |

| Adam | Fripp | 8200.00 |

| John | Chen | 8200.00 |

| William | Gietz | 8300.00 |

| Jack | Livingston | 8400.00 |

| Jonathon | Taylor | 8600.00 |

| Alyssa | Hutton | 8800.00 |

| Allan | McEwen | 9000.00 |

| Peter | Hall | 9000.00 |

| Alexander | Hunold | 9000.00 |

| Daniel | Faviet | 9000.00 |

| Patrick | Sully | 9500.00 |

| Danielle | Greene | 9500.00 |

| David | Bernstein | 9500.00 |

| Tayler | Fox | 9600.00 |

| Hermann | Baer | 10000.00 |

| Harrison | Bloom | 10000.00 |

| Janette | King | 10000.00 |

| Peter | Tucker | 10000.00 |

| Eleni | Zlotkey | 10500.00 |

| Clara | Vishney | 10500.00 |

| Gerald | Cambrault | 11000.00 |

| Ellen | Abel | 11000.00 |

| Den | Raphaely | 11000.00 |

| Lisa | Ozer | 11500.00 |

| Alberto | Errazuriz | 12000.00 |

| Shelley | Higgins | 12000.00 |

| Nancy | Greenberg | 12000.00 |

| Michael | Hartstein | 13000.00 |

| Karen | Partners | 13500.00 |

| John | Russell | 14000.00 |

| Lex | De Haan | 17000.00 |

| Neena | Kochhar | 17000.00 |

| Steven | King | 24000.00 |

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

61 rows in set (0.00 sec)

MariaDB [csd2204w18]> select first\_name, last\_name,salary from employees where salary > (select max(salary) from employees where job\_id='SH\_CLERK') order by salary;

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

| first\_name | last\_name | salary |

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

| Jennifer | Whalen | 4400.00 |

| David | Austin | 4800.00 |

| Valli | Pataballa | 4800.00 |

| Kevin | Mourgos | 5800.00 |

| Bruce | Ernst | 6000.00 |

| Pat | Fay | 6000.00 |

| Sundita | Kumar | 6100.00 |

| Amit | Banda | 6200.00 |

| Charles | Johnson | 6200.00 |

| Sundar | Ande | 6400.00 |

| Susan | Mavris | 6500.00 |

| Shanta | Vollman | 6500.00 |

| David | Lee | 6800.00 |

| Luis | Popp | 6900.00 |

| Sarath | Sewall | 7000.00 |

| Oliver | Tuvault | 7000.00 |

| Kimberely | Grant | 7000.00 |

| Mattea | Marvins | 7200.00 |

| Elizabeth | Bates | 7300.00 |

| William | Smith | 7400.00 |

| Nanette | Cambrault | 7500.00 |

| Louise | Doran | 7500.00 |

| Ismael | Sciarra | 7700.00 |

| Jose Manuel | Urman | 7800.00 |

| Payam | Kaufling | 7900.00 |

| Lindsey | Smith | 8000.00 |

| Matthew | Weiss | 8000.00 |

| Christopher | Olsen | 8000.00 |

| Adam | Fripp | 8200.00 |

| John | Chen | 8200.00 |

| William | Gietz | 8300.00 |

| Jack | Livingston | 8400.00 |

| Jonathon | Taylor | 8600.00 |

| Alyssa | Hutton | 8800.00 |

| Allan | McEwen | 9000.00 |

| Peter | Hall | 9000.00 |

| Alexander | Hunold | 9000.00 |

| Daniel | Faviet | 9000.00 |

| Patrick | Sully | 9500.00 |

| Danielle | Greene | 9500.00 |

| David | Bernstein | 9500.00 |

| Tayler | Fox | 9600.00 |

| Hermann | Baer | 10000.00 |

| Harrison | Bloom | 10000.00 |

| Janette | King | 10000.00 |

| Peter | Tucker | 10000.00 |

| Eleni | Zlotkey | 10500.00 |

| Clara | Vishney | 10500.00 |

| Gerald | Cambrault | 11000.00 |

| Ellen | Abel | 11000.00 |

| Den | Raphaely | 11000.00 |

| Lisa | Ozer | 11500.00 |

| Alberto | Errazuriz | 12000.00 |

| Shelley | Higgins | 12000.00 |

| Nancy | Greenberg | 12000.00 |

| Michael | Hartstein | 13000.00 |

| Karen | Partners | 13500.00 |

| John | Russell | 14000.00 |

| Lex | De Haan | 17000.00 |

| Neena | Kochhar | 17000.00 |

| Steven | King | 24000.00 |

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

61 rows in set (0.00 sec)

MariaDB [csd2204w18]> select b.first\_name,b.last\_name from employees b where not exist

-> (select 'x' from employee a where a.manager\_id= b.employee\_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 'select 'x' from employee a where a.manager\_id= b.employee\_id)' at line 2

MariaDB [csd2204w18]> select b.first\_name,b.last\_name from employees b where not exist

-> (select \* from employee a where a.manager\_id= b.employee\_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 'select \* from employee a where a.manager\_id= b.employee\_id)' at line 2

MariaDB [csd2204w18]> select b.first\_name,b.last\_name from employees b where not exist

-> (select a.employee\_id from employee a where a.manager\_id= b.employee\_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 'select a.employee\_id from employee a where a.manager\_id= b.employee\_id)' at line 2

MariaDB [csd2204w18]> select b.first\_name,b.last\_name from employees b where not exist (select \* from employees a where a.manager\_id=b.employee\_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 'select \* from employees a where a.manager\_id=b.employee\_id)' at line 1

MariaDB [csd2204w18]> select b.first\_name,b.last\_name from employees b where not exist (select \* from employees a where a.manager\_id=b.employee\_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 'select \* from employees a where a.manager\_id=b.employee\_id)' at line 1

MariaDB [csd2204w18]> select b.first\_name,b.last\_name from employees b where not exists (select \* 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 [csd2204w18]> select e.employee\_id,e.first\_name,e.last\_name,d.department\_name from employees e inner join department d on e.department\_id=d.department\_id;

ERROR 1146 (42S02): Table 'csd2204w18.department' doesn't exist

MariaDB [csd2204w18]> select e.employee\_id,e.first\_name,e.last\_name,d.department\_name from employees e inner join departments d on e.department\_id=d.department\_id;

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

| employee\_id | first\_name | last\_name | department\_name |

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

| 100 | Steven | King | Executive |

| 101 | Neena | Kochhar | Executive |

| 102 | Lex | De Haan | Executive |

| 103 | Alexander | Hunold | IT |

| 104 | Bruce | Ernst | IT |

| 105 | David | Austin | IT |

| 106 | Valli | Pataballa | IT |

| 107 | Diana | Lorentz | IT |

| 108 | Nancy | Greenberg | Finance |

| 109 | Daniel | Faviet | Finance |

| 110 | John | Chen | Finance |

| 111 | Ismael | Sciarra | Finance |

| 112 | Jose Manuel | Urman | Finance |

| 113 | Luis | Popp | Finance |

| 114 | Den | Raphaely | Purchasing |

| 115 | Alexander | Khoo | Purchasing |

| 116 | Shelli | Baida | Purchasing |

| 117 | Sigal | Tobias | Purchasing |

| 118 | Guy | Himuro | Purchasing |

| 119 | Karen | Colmenares | Purchasing |

| 120 | Matthew | Weiss | Shipping |

| 121 | Adam | Fripp | Shipping |

| 122 | Payam | Kaufling | Shipping |

| 123 | Shanta | Vollman | Shipping |

| 124 | Kevin | Mourgos | Shipping |

| 125 | Julia | Nayer | 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 |

| 133 | Jason | Mallin | Shipping |

| 134 | Michael | Rogers | 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 |

| 144 | Peter | Vargas | Shipping |

| 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 |

| 152 | Peter | Hall | Sales |

| 153 | Christopher | Olsen | Sales |

| 154 | Nanette | Cambrault | Sales |

| 155 | Oliver | Tuvault | Sales |

| 156 | Janette | King | Sales |

| 157 | Patrick | Sully | Sales |

| 158 | Allan | McEwen | Sales |

| 159 | Lindsey | Smith | Sales |

| 160 | Louise | Doran | Sales |

| 161 | Sarath | Sewall | Sales |

| 162 | Clara | Vishney | Sales |

| 163 | Danielle | Greene | Sales |

| 164 | Mattea | Marvins | Sales |

| 165 | David | Lee | Sales |

| 166 | Sundar | Ande | Sales |

| 167 | Amit | Banda | Sales |

| 168 | Lisa | Ozer | Sales |

| 169 | Harrison | Bloom | Sales |

| 170 | Tayler | Fox | Sales |

| 171 | William | Smith | Sales |

| 172 | Elizabeth | Bates | Sales |

| 173 | Sundita | Kumar | Sales |

| 174 | Ellen | Abel | Sales |

| 175 | Alyssa | Hutton | Sales |

| 176 | Jonathon | Taylor | Sales |

| 177 | Jack | Livingston | Sales |

| 179 | Charles | Johnson | Sales |

| 180 | Winston | Taylor | Shipping |

| 181 | Jean | Fleaur | Shipping |

| 182 | Martha | Sullivan | Shipping |

| 183 | Girard | Geoni | Shipping |

| 184 | Nandita | Sarchand | Shipping |

| 185 | Alexis | Bull | Shipping |

| 186 | Julia | Dellinger | Shipping |

| 187 | Anthony | Cabrio | Shipping |

| 188 | Kelly | Chung | Shipping |

| 189 | Jennifer | Dilly | Shipping |

| 190 | Timothy | Gates | Shipping |

| 191 | Randall | Perkins | Shipping |

| 192 | Sarah | Bell | Shipping |

| 193 | Britney | Everett | Shipping |

| 194 | Samuel | McCain | Shipping |

| 195 | Vance | Jones | Shipping |

| 196 | Alana | Walsh | Shipping |

| 197 | Kevin | Feeney | Shipping |

| 198 | Donald | OConnell | Shipping |

| 199 | Douglas | Grant | Shipping |

| 200 | Jennifer | Whalen | Administration |

| 201 | Michael | Hartstein | Marketing |

| 202 | Pat | Fay | Marketing |

| 203 | Susan | Mavris | Human Resources |

| 204 | Hermann | Baer | Public Relations |

| 205 | Shelley | Higgins | Accounting |

| 206 | William | Gietz | Accounting |

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

106 rows in set (0.00 sec)

MariaDB [csd2204w18]> select e.employee\_id,e.first\_name,e.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 |

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107 rows in set (0.00 sec)

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