```
Setting environment for using XAMPP for Windows.
rauf@RAUFBISWAS c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.32-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]>
```

Command:

```
mysql -u root -p
show databases;
create database 13;
use 13;
create table employee
employee id char(10),
first_name varchar(20),
last name varchar(20),
email varchar(60),
phone_number char(14),
hire_date date,
job_id char(10),
salary int,
commission pct decimal(5,3),
manager_id char(10),
```

```
department id char(10)
);
INSERT INTO employee VALUES
('EMP001', 'Ani', 'Otwell', 'aniot@laravel.com', '1234569360',
'2015-06-10', 'JOB002', 30000, 2.000, 'MNG001', 'DPT003'),
('EMP002', 'Ryan', 'Rauf', 'rauf@nodejs.org', '87321633632',
'2021-04-22', 'JOB008', 20000, 0.000, 'MNG002', 'DPT001'),
('EMP003', 'Rafi', 'Resig', 'john@jquery.com', '6546546543',
'2022-06-12', 'JOB018', 5000, 0.002, 'MNG002', 'DPT005'),
('EMP004', 'Khaled', 'Eich', 'eich@javascript.com',
'43278939570', '2021-05-07', 'JOB009', 30000, 0.000, 'MNG001',
'DPT002'),
('EMP005', 'Linus', 'Biswas', 'linus@linux.com', '9879879876',
'2021-08-08', 'JOB015', 2000, 0.050, 'MNG002', 'DPT006'),
('EMP006', 'Evan', 'Me', 'mEe@vuejs.org', '4321876530', '2016-06-
11', 'JOB003', 40000, 8.245, 'MNG002', 'DPT005'),
('EMP007', 'Anymos', 'Lerdorf', 'lerdorf@php.net', '9876637927',
'2020-06-03', 'JOB006', 25000, 0.852, 'MNG001', 'DPT001'),
('EMP008', 'Guido', 'Vanule', 'quido@python.org', '88765438827',
'2020-07-18', 'JOB007', 25000, 1.000, 'MNG002', 'DPT001'),
('EMP009', 'Madroni', 'Holovaty', 'madroni@djangoproject.com',
'12269570724', '2019-05-07', 'JOB004', 50000, 4.205, 'MNG001',
'DPT002'),
('EMP010', 'Simpson', 'Willison', 'simpson@djangoproject.com',
'87432864615', '2015-04-30', 'JOB001', 50000, 12.500, 'MNG002',
'DPT001'),
('EMP011', 'James', 'Gosl', 'james@java.com', '7896549491',
```

'2020-05-18', 'JOB005', 7000, 0.000, 'MNG002', 'DPT004'),

```
('EMP012', 'Kenoi', 'Thomps', 'kenoi@unix.com', '1231231234',
'2021-06-18', 'JOB013', 7000, 0.023, 'MNG002', 'DPT005'),
('EMP013', 'Roddil', 'Johnson', 'roddil@spring.io', '4543601744',
'2021-05-18', 'JOB012', 2000, 0.000, 'MNG002', 'DPT003'),
('EMP014', 'Anderson', 'Hejls', 'anderson@csharp.com',
'7657657654', '2022-05-18', 'JOB017', 1200, 0.230, 'MNG002',
'DPT007'),
('EMP015', 'Faltu', 'Nakami', 'nakami@blockchain.com',
'98165630488', '2021-05-10', 'JOB011', 1500, 0.234, 'MNG001',
'DPT004'),
('EMP016', 'Dennis', 'Rich', 'dennis69@unix.com', '4324324324',
'2021-08-08', 'JOB014', 1000, 0.023, 'MNG002', 'DPT007'),
('EMP017', 'Bjarne', 'Poor', 'bjarne@cpp.com', '8768768765',
'2021-12-25', 'JOB016', 1500, 0.500, 'MNG002', 'DPT007'),
('EMP018', 'Richie', 'Hockey', 'rich@clojure.com', '5435435432',
'2023-10-08', 'JOB019', 1000, 0.009, 'MNG002', 'DPT007'),
('EMP019', 'Yukini', 'Natonumi', 'yukinato690@gmail.com',
'9848840488', '2020-12-10', 'JOB010', 10000, 0.234, 'MNG001',
'DPT005'),
('EMP020', 'Marga', 'Ton', 'marga@apollo.com', '7767767768',
```

'2023-11-17', 'JOB020', 35000, 0.001, 'MNG002', 'DPT007');

select * from employee;

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP001	Ani	Otwell	aniot@laravel.com	1234569360	2015-06-10	JOB002	30000	2.000	MNG001	 DPT003
EMP002	Ryan	Rauf	rauf@nodejs.org	87321633632	2021-04-22	J0B008	20000	0.000	MNG002	DPT001
EMP003	Rafi	Resig	john@jquery.com	6546546543	2022-06-12	J0B018	5000	0.002	MNG002	DPT005
EMP004	Khaled	Eich	eich@javascript.com	43278939570	2021-05-07	J0B009	30000	0.000	MNG001	DPT002
EMP005	Linus	Biswas	linus@linux.com	9879879876	2021-08-08	J0B015	2000	0.050	MNG002	DPT006
EMP006	Evan	Me	mEe@vuejs.org	4321876530	2016-06-11	J0B003	40000 i	8.245	MNG002	DPT005
EMP007	Anymos	Lerdorf	lerdorf@php.net	9876637927	2020-06-03	J0B006	25000	0.852	MNG001	DPT001
EMP008	Guido	Vanule	quido@python.org	88765438827	2020-07-18	J0B007	25000	1.000	MNG002	DPT001
EMP009	Madroni	Holovaty	madroni@djangoprojec	12269570724	2019-05-07	J0B004	50000 i	4.205	MNG001	DPT002
EMP010	Simpson	Willison	simpson@djangoprojec	87432864615	2015-04-30	JOB001	I 50000 i	12.500	MNG002	DPT001
EMP011	James	Gosl	james@java.com	7896549491	2020-05-18	J0B005	7000 i	0.000	MNG002	DPT004
EMP012	Kenoi	Thomps	kenoi@unix.com	1231231234	2021-06-18	J0B013	I 7000 i	0.023	MNG002	DPT005
EMP013	Roddil	Johnson	roddil@spring.io	4543601744	2021-05-18	J0B012	2000	0.000	MNG002	DPT003
EMP014	Anderson	Heils	anderson@csharp.com	7657657654	2022-05-18	J0B017	1200	0.230	MNG002	DPT007
EMP015	Faltu	Nakami	nakami@blockchain.co	98165630488	2021-05-10	JOB011	I 1500 İ	0.234	MNG001	DPT004
EMP016	Dennis	Rich	dennis69@unix.com	4324324324	2021-08-08	J0B014	1000	0.023	MNG002	DPT007
EMP017	Bjarne	Poor	bjarne@cpp.com	8768768765	2021-12-25	J0B016	1500	0.500	MNG002	DPT007
EMP018	Richie	Hockey	rich@clojure.com	5435435432	2023-10-08	J0B019	1000	0.009	MNG002	DPT007
EMP019	Yukini	Natonumi	yukinato690@gmail.co	98488840488	2020-12-10	J0B010	10000	0.234	MNG001	DPT005
EMP020	Marga	Ton	marga@apollo.com	7767767768	2023-11-17	J0B020	35000	0.001	MNG002	DPT007

Answers of the queries:

• select first_name, last_name, email, phone_number,
hire_date, department_id from employee where hire_date =
 (select max(hire_date) from employee);

MariaDB [l3]>	select firs	t_name, last_name, o	email, phone_num	mber, hire_dat	te, department_id	from employee	where hire_date :	= (select max(h	ire_date)	from employ	ee);
first_name	last_name	email	phone_number	hire_date	department_id						
Marga	Ton	marga@apollo.com	7767767768	2023-11-17	DPT007						
1 row in set ((0.055 sec)										

• select first_name, last_name, employee_id, phone_number,
 salary, department_id from employee e1 where salary =
 (select min(salary) from employee e2 where e1.department_id
 = e2.department_id);



• select first_name, last_name, employee_id, commission_pct,
 department_id from employee where department_id = 'dpt007'
 and commission_pct < all(select min(commission_pct) from
 employee where department_id = 'dpt005');</pre>

MariaOB [l3]> select first_name, last_name, employee_id, commission_pct, department_id from employee where department_id = 'dpt007' and commission_pct < all(select min(commission_pct) from employee where department_id = 'dpt005');												
	last_name	employee_id	commission_pct	department_id								
Marga	Ton	EMP020		DPT097								
1 row in set												

 select department_id, count(*) from employee group by department id having max(salary) <= 30000;

• select department_id, job_id, commission_pct from employee
e1 where commission_pct < (select max(commission_pct) from
employee e2 where e1.department_id = e2.department_id and
e1.commission_pct < e2.commission_pct);</pre>



 select manager_id from employee group by manager_id having min(salary) >= 3500;

MariaDB [l3]> select manager_id from employee group by manager_id having min(salary) >= 3500; Empty set (0.001 sec)

• select first_name, last_name, employee_id, email, salary, department_id and commission_pct from employee e1 where commission_pct = (select min(commission_pct) from employee e2 where e1.manager id = e2.manager id);

