

```
create database Ridwan_21201663;
use Ridwan_21201663;
create table employees(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
employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,commission_
pct,manager_id,department_id) values ('EMP001','Anisha Irin', 'Ahmed', 'anishairinahmed@gmail.com',
'+8801960115664', '2020-06-10', 'JOB001', 20000, 23.555, 'MNG001', 'DPT001'), ('EMP002',
'Mohammad Rizwanul', 'Islam', 'mohammadrizwanulislam@gmail.com', '+8801784236618', '2020-04-22',
'JOB002', 5500, 17.891, 'MNG002', 'DPT006'), ('EMP003', 'Mohammad Riazul', 'Islam',
'iamriaz&u?@gmail.com', '+8801732291743', '2020-05-07', 'JOB003', 249500, 21.211, 'MNG005',
'DPT005'), ('EMP004', 'Mohammad Ridwanul', 'Islam', 'i.ridwanul22@gmail.com', '+8801745401176',
'2020-06-11', 'JOB004', 17000, 13.223, 'MNG007', 'DPT010'), ('EMP005', 'Vikram', 'Rathore',
'vikram.rathore59@yahoo.com', '+02198000751234', '2020-06-3', 'JOB005', 250146459, 58.265,
'MNG008', 'DPT008'), ('EMP006', 'Virat', 'Kohli', 'kingvirat13@hotmail.com', '+0548321107869',
'2020-07-18', 'JOB006', 189663751, 40.877, 'MNG003', 'DPT003'), ('EMP007', 'Cristiano', 'Ronaldo',
'hehesiuuuu07@yahoo.com', '+0752944407736', '2020-05-07', 'JOB007', 9696771717, 77.777, 'MNG007',
'DPT007'), ('EMP008', 'Jessie', 'Pinkman', 'breakingbad01@gmail.com', '+6698878910111', '2020-04-30',
'JOB008', 100114574, 20.341, 'MNG005', 'DPT002'), ('EMP009', 'Suguru', 'Geto',
'getosuguru28@anime.com', '+2241537620045', '2020-05-18', 'JOB009', 250062, 19.398, 'MNG007',
'DPT009'), ('EMP010', 'Daemon', 'Targaryen', 'daemontargaryen@hotd.com', '+1141537620046',
'2020-05-10', 'JOB010', 6384577, 20.964, 'MNG003', 'DPT001');
Select * from employees;
```

```

MariaDB [(none)]> create database Ridwan_21201663;
Query OK, 1 row affected (0.801 sec)

MariaDB [(none)]> use Ridwan_21201663;
Database changed

MariaDB [Ridwan_21201663]> create table employees(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));
Query OK, 0 rows affected (0.485 sec)

MariaDB [Ridwan_21201663]> Insert into employees(employee_id,first_name,last_name,email,phone_number,hire_date,job_id,salary,commission_pct,manager_id,department_id) values ('EMP001','Anisha Irin','Ahmed','anishairinahmed@gmail.com','+8801960115664','2020-06-10','JOB001','20000','23.55','MWG001','DPT001'),('EMP002','Mohammad Rizwanul Islam','mohamadrizwanulislam@gmail.com','+8801784236618','2020-04-22','JOB002','5500','MWG002','DPT006'),('EMP003','Mohammad Riadul Islam','iamriazul@gmail.com','+8801732291743','2020-05-07','JOB003','249580','21.21','MWG005','DPT005'),('EMP004','Mohammad Ridwanul Islam','i.ridwanul2@gmail.com','+880154501176','2020-06-11','JOB004','17000','13.223','MWG007','DPT010'),('EMP005','Vikram','Rathore','vikram.rathores@yahoo.com','+02198000751234','2020-06-03','JOB005','250146459','58.265','MWG008','DPT003'),('EMP006','Virat','Kohli','kingvirat1@hotmail.com','+0548321107869','2020-07-18','JOB006','189663751','40.877','MWG003','DPT003'),('EMP007','Cristiano','Ronaldro','hehesiuuu07@yahoo.com','+0752944407736','2020-05-07','JOB007','2147483647','77.777','MWG007','DPT003'),('EMP008','Jessie','Pinkman','breakingbad01@gmail.com','+6698878910111','2020-04-30','JOB008','100114574','20.341','MWG005','DPT002'),('EMP009','Suguru','Geto','getosuguru2banime.com','+2241537620045','2020-05-18','JOB009','250602','19.398','MWG007','DPT009'),('EMP010','Daemon','Targaryen','daemontargaryen@otd.com','+1141517620046','2020-05-10','JOB010','6384577','20.964','MWG003','DPT001');
Query OK, 10 rows affected, 2 warnings (0.381 sec)
Warning 1: Truncated decimal value stored as 0.
Warning 2: Truncated decimal value stored as 0.
Records: 10 Duplicates: 0 Warnings: 2

MariaDB [Ridwan_21201663]> Select * from employees;
```

	employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP001	Anisha Irin	Ahmed	anishairinahmed@gmail.com	+8801960115664	2020-06-10	JOB001	20000	23.55	MWG001	DPT001	
EMP002	Mohammad Rizwanul Islam	mohamadrizwanulislam@gmail.com	+8801784236618	2020-04-22	JOB002	5500	17.891	MWG002	DPT006		
EMP003	Mohammad Riadul Islam	iamriazul@gmail.com	+8801732291743	2020-05-07	JOB003	249580	21.21	MWG005	DPT005		
EMP004	Mohammad Ridwanul Islam	i.ridwanul2@gmail.com	+880154501176	2020-06-11	JOB004	17000	13.223	MWG007	DPT010		
EMP005	Vikram Rathore	vikram_rathores@yahoo.com	+0219800075123	2020-06-03	JOB005	250146459	58.265	MWG008	DPT003		
EMP006	Virat Kohli	kingvirat1@hotmail.com	+0548321107869	2020-07-18	JOB006	189663751	40.877	MWG003	DPT003		
EMP007	Cristiano Ronaldo	hehesiuuu07@yahoo.com	+0752944407736	2020-05-07	JOB007	2147483647	77.777	MWG007	DPT003		
EMP008	Jessie Pinkman	breakingbad01@gmail.com	+6698878910111	2020-04-30	JOB008	100114574	20.341	MWG005	DPT002		
EMP009	Suguru Geto	getosuguru2banime.com	+2241537620045	2020-05-18	JOB009	250602	19.398	MWG007	DPT009		
EMP010	Daemon Targaryen	daemontargaryen@otd.com	+1141517620046	2020-05-10	JOB010	6384577	20.964	MWG003	DPT001		

```

10 rows in set (0.191 sec)
```

Answer No. 1:

Select first_name, last_name, email, phone_number, hire_date, department_id from employees where hire_date in (Select Max(hire_date) from employees);

```
MariaDB [Ridwan_21201663]> Select first_name, last_name, email, phone_number, hire_date, department_id from employees where hire_date in (Select Max(hire_date) from employees);
```

first_name	last_name	email	phone_number	hire_date	department_id
Virat	Kohli	kingvirat13@hotmail.com	+0548321107869	2020-07-18	DPT003

```
1 row in set (0.001 sec)
```

Answer No. 2:

Select first_name, last_name, employee_id, phone_number, salary, department_id from employees where salary in (Select Min(salary) from employees group by department_id);

```
MariaDB [Ridwan_21201663]> Select first_name, last_name, employee_id, phone_number, salary, department_id from employees where salary in (Select Min(salary) from employees group by department_id);
```

first_name	last_name	employee_id	phone_number	salary	department_id
Anisha Irin	Ahmed	EMP001	+8801960115664	20000	DPT001
Mohammad Rizwanul	Islam	EMP002	+8801784236618	5500	DPT006
Mohammad Riazul	Islam	EMP003	+8801732291743	249500	DPT005
Mohammad Ridwanul	Islam	EMP004	+8801745401176	17000	DPT010
Vikram	Rathore	EMP005	+0219800075123	250146459	DPT008
Virat	Kohli	EMP006	+0548321107869	189663751	DPT003
Cristiano	Ronaldo	EMP007	+0752944407736	2147483647	DPT007
Jessie	Pinkman	EMP008	+6698878910111	100114574	DPT002
Suguru	Geto	EMP009	+2241537620045	250062	DPT009

```
9 rows in set (0.001 sec)
```

Answer No. 3:

Select first_name, last_name, employee_id, commission_pct, department_id from employees where department_id='DPT007' and commission_pct<all(Select commission_pct from employees where department_id= 'DPT005');

```
MariaDB [Ridwan_21201663]> Select first_name, last_name, employee_id, commission_pct, department_id from employees where department_id='DPT007' and commission_pct<all(Select commission_pct from employees where department_id= 'DPT005');
```

```
Empty set (0.000 sec)
```

Answer No. 4:

Select distinct department_id, count(employee_id) as total_employees from employees where salary<=30000 group by department_id;

```
MariaDB [Ridwan_21201663]> Select distinct department_id, count(employee_id) as total_employees from employees where salary<=30000 group by department_id;
```

department_id	total_employees
DPT001	1
DPT006	1
DPT010	1

```
3 rows in set (0.001 sec)
```

Answer No. 5:

Select department_id, job_id, commission_pct from employees L1 where exists (Select * from employees L2 where L1.department_id=L2.department_id and L1.job_id!=L2.job_id and L1.commission_pct<L2.commission_pct);

```
MariaDB [Ridwan_21201663]> Select department_id, job_id, commission_pct from employees L1 where exists (Select * from employees L2 where L1.department_id=L2.department_id and L1.job_id!=L2.job_id and L1.commission_pct<L2.commission_pct);
+-----+
| department_id | job_id | commission_pct |
+-----+
| DPT001        | J08010 | 20.964         |
+-----+
1 row in set (0.001 sec)
```

Answer No. 6:

Select distinct manager_id from employees where employees.salary>=3500;

```
MariaDB [Ridwan_21201663]> Select distinct manager_id from employees where employees.salary>=3500;
+-----+
| manager_id |
+-----+
| MNG001     |
| MNG002     |
| MNG005     |
| MNG007     |
| MNG008     |
| MNG003     |
+-----+
6 rows in set (0.001 sec)
```

Answer No. 7:

Select first_name, last_name, employee_id, email, salary, department_id, commission_pct from employees where commission_pct in (Select Min(commission_pct) from employees group by manager_id);

```
MariaDB [Ridwan_21201663]> Select first_name, last_name, employee_id, email, salary, department_id, commission_pct from employees where commission_pct in (Select Min(commission_pct) from employees group by manager_id);
+-----+
| first_name | last_name | employee_id | email | salary | department_id | commission_pct |
+-----+
| Anisha Irin | Ahmed | EMP001 | anishairinahmed@gmail.com | 20000 | DPT001 | 23.555 |
| Mohammad Rizwanul | Islam | EMP002 | mohammadrizwanulislam@gmail.com | 5500 | DPT005 | 17.891 |
| Mohammad Ridwanul | Islam | EMP004 | I.ridwanul22@gmail.com | 17000 | DPT010 | 13.222 |
| Vikram | Rathore | EMP005 | vikram.rathore50@yahoo.com | 250146459 | DPT000 | 58.265 |
| Jessie | Pinkman | EMP008 | breakingbad01@gmail.com | 100114574 | DPT002 | 20.341 |
| Daemon | Targaryen | EMP010 | daemontargaryen@hotmail.com | 6384577 | DPT001 | 20.964 |
+-----+
6 rows in set (0.001 sec)
```