```
MariaDB [assignment02]> 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)
    -> );
Query OK, 0 rows affected (0.016 sec)
```

```
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)
);
```

```
MariaDB [assignment02]> INSERT INTO Employee VALUES
-> ('EMP001', 'Abir', 'Hossain', 'abir.hossain@abc.com', '+8801234567890', '2015-09-15', 'JOB001', 70000, 0.10, 'MNG001', 'DPT001'),
-> ('EMP002', 'Nafis', 'Ahmed', 'nafishossain@abc.com', '+8801234567891', '2017-01-15', 'JOB002', 50000, 0.06, 'MNG002', 'DPT001'),
-> ('EMP003', 'Tasneem', 'Habib', 'tasnim002@gmail.com', '+8801234567892', '2016-10-12', 'JOB001', 55000, 0.10, 'MNG003', 'DPT002'),
-> ('EMP004', 'Nahid', 'Islam', 'nahidislam007@outlook.com', '+8801234567893', '2018-11-11', 'JOB002', 40000, 0.03, 'MNG004', 'DPT002'),
-> ('EMP005', 'Arafat', 'Talukder', 'arafat0001@gmail.com', '+8801234567894', '2020-02-14', 'JOB002', 50000, 0.07, 'MNG004', 'DPT003'),
-> ('EMP005', 'Arafat', 'Talukder', 'arafat0010@mail.com', '+8801234567895', '2018-01-12', 'JOB001', 50000, 0.07, 'MNG002', 'DPT003'),
-> ('EMP006', 'Muhtadi', 'Hasan', 'muh.tadi@gmail.com', '+8801234567896', '2019-05-29', 'JOB001', 40000, 0.01, 'MNG003', 'DPT003'),
-> ('EMP008', 'Farhana', 'Roja', 'roja.farhana@xyz.com', '+8801234567898', '2015-02-19', 'JOB0001', 40000, 0.01, 'MNG001', 'DPT004'),
-> ('EMP008', 'Naima', 'Jahan', 'naima.jahan@gmail.com', '+8801234567898', '2015-02-19', 'JOB001', '20000, 0.15', 'MNG001', 'DPT005'),
-> ('EMP011', 'Arafat', 'Hossain', 'arafat0101@gmail.com', '+8801234567897', '2021-01-15', 'JOB001', 'JOB002', 'DPT006'),
-> ('EMP011', 'Arafat', 'Hossain', 'arafat0101@gmail.com', '+8801234567810', '2021-01-11', 'JOB002', 'Que, 'MNG003', 'DPT006'),
-> ('EMP011', 'Arafat', 'Hossain', 'arafat0101@gmail.com', '+8801234567800', '2021-02-11', 'JOB001', 'JOB001', 'MNG004', 'DPT006'),
-> ('EMP011', 'Arafat', 'Hossain', 'arafat0101@gmail.com', '+8801234567800', '2021-02-11', 'JOB001', 'JOB001', 'MNG004', 'DPT006'),
-> ('EMP011', 'Arafat', 'Hossain', 'arafat0101@mail.com', '+8801234567800', '2021-02-11', 'JOB001', 'JOB001', 'JOB001', 'DPT006'),
-> ('EMP011', 'Arafat', 'Hossain', 'Arafat', 'Homos', 'Homos'
```

INSERT INTO Employee VALUES

('EMP001', 'Abir', 'Hossain', 'abir.hossain@abc.com', '+8801234567890', '2015-09-15', 'JOB001', 70000, 0.10, 'MNG001', 'DPT001'),

('EMP002', 'Nafis', 'Ahmed', 'nafishossain@hotmail.com', '+8801234567891', '2017-01-15', 'JOB002', 50000, 0.06, 'MNG002', 'DPT001'),

('EMP003', 'Tasneem', 'Habib', 'tasnim002@gmail.com', '+8801234567892', '2016-10-12', 'JOB001', 65000, 0.10, 'MNG003', 'DPT002'),

('EMP004', 'Nahid', 'Islam', 'nahidislam007@outlook.com', '+8801234567893', '2018-11-11', 'JOB002', 40000, 0.03, 'MNG004', 'DPT002'),

('EMP005', 'Arafat', 'Talukder', 'arafat0001@gmail.com', '+8801234567894', '2020-02-14', 'JOB001', 25000, 0.01, 'MNG001', 'DPT003'),

('EMP006', 'Tasneem', 'Jahan', 'tasneemjahan@yahoo.com', '+8801234567895', '2018-01-12', 'JOB002', 50000, 0.07, 'MNG002', 'DPT003'),

('EMP007', 'Muhtadi', 'Hasan', 'muh.tadi@gmail.com', '+8801234567896', '2019-05-29', 'JOB001', 40000, 0.01, 'MNG003', 'DPT004'),

('EMP008', 'Farhana', 'Roja', 'roja.farhana@xyz.com', '+8801234567898', '2015-02-19', 'JOB002', 75000, 0.15, 'MNG004', 'DPT004'),

('EMP009', 'Naima', 'Jahan', 'naima.jahan@gmail.com', '+8801234567897', '2021-01-15', 'JOB001', 20000, 0.01, 'MNG001', 'DPT005'),

('EMP010', 'Nahid', 'Abrar', 'nahid0010@abc.com', '+8801234567899', '2022-01-20', 'JOB002', 18000, 0.01, 'MNG002', 'DPT005'),

('EMP011', 'Arafat', 'Hossain', 'arafat0101@gmail.com', '+8801234567810', '2019-11-12', 'JOB001', 35000, 0.02, 'MNG003', 'DPT006'),

('EMP012', 'Tasneem', 'Haque', 'tasneemmm11@gmail.com', '+8801234567820', '2021-02-11', 'JOB002', 20000, 0.01, 'MNG004', 'DPT006'),

('EMP013', 'Muhtadi', 'Mabin', 'mabib.muh11tadi@gmail.com', '+8801234567840', '2023-01-03', 'JOB001', 10000, 0.05, 'MNG001', 'DPT007'),

('EMP014', 'Farhana', 'Afaf', 'farhana.afaf@gmail.com', '+8801234567831', '2020-01-27', 'JOB002', 30000, 0.04, 'MNG002', 'DPT007'),

('EMP015', 'Naima', 'Tanjila', 'tanjila.naima@outlook.com', '+8801234567890', '2010-01-12', 'JOB001', 110000, 0.20, 'MNG003', 'DPT001'),

('EMP016', 'Sanzida', 'Afrin', 'sanzida.afrin@outlook.com', '+8801234567210', '2016-01-12', 'JOB002', 80000, 0.15, 'MNG004', 'DPT003');

1.

irst_name	last_name	email	phone_number	hire_date	department_id
Muhtadi	+ Mabin	mabib.muh11tadi@gmail.com	+ +8801234567840	2023-01-03	
Nahid	Abrar	nahid0010@abc.com	+8801234567899	2022-01-20	DPT005
Tasneem	Haque	tasneemmm11@gmail.com	+8801234567820	2021-02-11	DPT006
Naima	Jahan	naima.jahan@gmail.com	+8801234567897	2021-01-15	DPT005
Arafat	Talukder	arafat0001@gmail.com	+8801234567894	2020-02-14	DPT003
Farhana	Afaf	farhana.afaf@gmail.com	+8801234567831	2020-01-27	DPT007
Arafat	Hossain	arafat0101@gmail.com	+8801234567810	2019-11-12	DPT006
Muhtadi	Hasan	muh.tadi@gmail.com	+8801234567896	2019-05-29	DPT004
Nahid	Islam	nahidislam007@outlook.com	+8801234567893	2018-11-11	DPT002
Tasneem	Jahan	tasneemjahan@yahoo.com	+8801234567895	2018-01-12	DPT003
Nafis	Ahmed	nafishossain@hotmail.com	+8801234567891	2017-01-15	DPT001
Tasneem	Habib	tasnim002@gmail.com	+8801234567892	2016-10-12	DPT002
Sanzida	Afrin	sanzida.afrin@outlook.com	+8801234567210	2016-01-12	DPT003
Abir	Hossain	abir.hossain@abc.com	+8801234567890	2015-09-15	DPT001
Farhana	Roja	roja.farhana@xyz.com	+8801234567898	2015-02-19	DPT004
Naima	Tanjila	tanjila.naima@outlook.com	+8801234567890	2010-01-12	DPT001

select first_name,last_name,email,phone_number,hire_date,department_id from employee order by hire_date desc;

2.

```
MariaDB [assignment02]> select first_name,last_name,employee_id_phone_number,salary,department_id from employee where (department_id,salary) in (select department_id,min(salary) from employee group by department_id);

| first_name | last_name | employee_id | phone_number | salary | department_id |
| Nafis | Ahmed | EMP002 | +8801234567891 | 50000 | DPT001 |
| Nahid | Islam | EMP004 | +8801234567893 | 40000 | DPT002 |
| Anahid | Islam | EMP005 | +8801234567893 | 40000 | DPT003 |
| Muhtadi | Hasan | EMP007 | +8801234567894 | 40000 | DPT004 |
| Nahid | Abrar | EMP010 | +8801234567899 | 18000 | DPT005 |
| Nahid | Abrar | EMP010 | +8801234567899 | 18000 | DPT006 |
| Nahid | Mabin | EMP011 | +8801234567890 | 20000 | DPT006 |
| Muhtadi | Mabin | EMP013 | +8801234567840 | 10000 | DPT007 |
| Tows in set (0.001 sec)
```

select first_name,last_name,employee_id,phone_number,salary,department_id from employee where (department_id,salary) in (select department_id,min(salary) from employee group by department id);

3.

```
dariaDB [assignment02]> select first_name,last_name,employee_id,commission_pct,department_id from employee where department_id='DPT007' and commission_pct<all(select co
mission_pct from employee where department_id='DPT005');
impty set (0.001 sec)
```

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

4.

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

5.

select department_id,job_id,commission_pct from employee e1 where commission_pct<any(select commission_pct from employee e2 where e1.department id=e2.department id and not e1.job id=e2.job id);

6.

```
MariaDB [assignment02]> select manager_id,salary from Employee group by manager_id having salary>3500;

+------+
| manager_id | salary |

+------+
| MNG001 | 70000 |
| MNG002 | 50000 |
| MNG003 | 65000 |
| MNG004 | 40000 |

+------+
4 rows in set (0.000 sec)
```

select manager_id,salary from Employee group by manager_id having salary>3500;

7.

select first_name,last_name,employee_id,email,salary,department_id,commission_pct from employee where(manager_id,commission_pct) in (select manager_id,min(commission_pct) from employee group by manager_id);