CREATE TABLE & SHOW TABLE:

```
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));
```

```
MariaDB [area120]> 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 (0.019 sec)
```

```
Insert into employees values
("EMP01", "Syeda", "Mahjabin", "syeda mahjabin@gmail.com", "+8801897654001",
"2019-01-01", "JOB001", 129000, 20.999, "M9", "DPT009"),
("EMP02", "Sanjida", "Ritu", "sanjida ritu@gmail.com", "+8801897654002", "2019-12-01",
"JOB002", 128000, 20.523, "M8", "DPT008"),
("EMP03", "Sabrina", "Lamia", "sabrina_lamia@gmail.com", "+8801897654003",
"2019-10-01", "JOB003", 127000, 20.132, "M8", "DPT008"),
("EMP04", "Anisha", "Megha", "anisha megha@gmail.com", "+8801897654004",
"2019-06-01", "JOB004", 126000, 20.142, "M7", "DPT007"),
("EMP05", "Gungun", "Proma", "gungun proma@gmail.com", "+8801897654005",
"2019-06-01", "JOB005", 125000, 20.967, "M7", "DPT007"),
("EMP06", "Syed", "Fahim", "syed fahim@gmail.com", "+8801897654006", "2019-05-01",
"JOB006", 124000, 19.893, "M7", "DPT007"),
("EMP07", "Adiba", "Azmi", "adiba azmi@gmail.com", "+8801897654007", "2019-09-01",
"JOB007", 123000, 12.954, "M6", "DPT006"),
("EMP08", "Jannatun", "Ripty", "jannatun ripty@gmail.com", "+8801897654008",
"2019-10-01", "JOB008", 122000, 15.657, "M5", "DPT005"),
("EMP09", "Amirun", "Monika", "amirun monika@gmail.com", "+8801897654009",
"2019-12-01", "JOB009", 121000, 10.435, "M6", "DPT006"),
("EMP10", "Humayra", "Sathi", "humayra sathi@gmail.com", "+8801897654010",
"2019-01-01", "JOB010", 120000, 21.123, "M5", "DPT005");
```

```
MariaDB [area120]> Insert into employees values
-> ("EMP01", "Syeda", "Mahjabin", "syeda_mahjabin@gmail.com", "+8801897654001", "2019-01-01", "J08001", 129000, 20.999, "M9", "DPT009"),
-> ("EMP02", "Sanjida", "Ritu", "sanjida_ritu@gmail.com", "+8801897654002", "2019-12-01", "J08002", 128000, 20.523, "M8", "DPT008"),
-> ("EMP03", "Sabrina", "Lamia", "sabrina lamia@gmail.com", "+8801897654002", "2019-10-01", "J08003", 127000, 20.132, "M8", "DPT008"),
-> ("EMP04", "Anisha", "Megha", "anisha_megha@gmail.com", "+8801897654004", "2019-06-01", "J08004", 126000, 20.142, "M7", "DPT007"),
-> ("EMP05", "Gungun", "Proma", "gungun_proma@gmail.com", "+8801897654005", "2019-06-01", "J08005", 125000, 20.967, "M7", "DPT007"),
-> ("EMP05", "Syed", "Fahim", "syed_fahim@gmail.com", "+8801897654005", "2019-09-01", "J08006", 124000, 19.893, "M7", "DPT007"),
-> ("EMP07", "Adiba", "Azmi", "adiba_azmi@gmail.com", "+8801897654007", "2019-09-01", "J08007", 123000, 12.954, "M6", "DPT006"),
-> ("EMP08", "Jannatun", "Ripty", "jannatun_ripty@gmail.com", "+8801897654008", "2019-10-01", "J08008", 122000, 15.657, "M5", "DPT005"),
-> ("EMP09", "Anirun", "Monika", "amirun_monika@gmail.com", "+8801897654008", "2019-10-01", "J08009", 121000, 10.435, "M6", "DPT006"),
-> ("EMP09", "Anirun", "Monika", "amirun_monika@gmail.com", "+8801897654010", "2019-01-01", "J08000", 12000, 21.123, "M5", "DPT006");
Query OK, 10 rows affected (0.007 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

Select * from employees;

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
EMP01	Syeda	Mahjabin	syeda_mahjabin@gmail.com	+8801897654001	2019-01-01	JOB001	129000	20.999	M9	DPT009
EMP02	Sanjida	Ritu	sanjida_ritu@gmail.com	+8801897654002	2019-12-01	JOB002	128000	20.523	M8	DPT008
EMP03	Sabrina	Lamia	sabrina_lamia@gmail.com	+8801897654003	2019-10-01	J0B003	127000	20.132	M8	DPT008
EMP04	Anisha	Megha	anisha_megha@gmail.com	+8801897654004	2019-06-01	J0B004	126000	20.142	M7	DPT007
EMP05	Gungun	Proma	gungun_proma@gmail.com	+8801897654005	2019-06-01	J0B005	125000	20.967	M7	DPT007
EMP06	Syed	Fahim	syed_fahim@gmail.com	+8801897654006	2019-05-01	J0B006	124000	19.893	M7	DPT007
EMP07	Adiba	Azmi	adiba_azmi@gmail.com	+8801897654007	2019-09-01	J0B007	123000	12.954	M6	DPT006
EMP08	Jannatun	Ripty	jannatun_ripty@gmail.com	+8801897654008	2019-10-01	J0B008	122000	15.657	M5	DPT005
EMP09	Amirun	Monika	amirun monika@gmail.com	+8801897654009	2019-12-01	J0B009	121000	10.435	M6	DPT006
EMP10	Humayra	Sathi	humayra_sathi@gmail.com	+8801897654010	2019-01-01	JOB010	120000	21.123	M5	DPT005

TASK-1:

Select first_name, last_name, email, phone_number, hire_date, department_id from employees where hire_date like (select max(hire_date) from employees);

TASK-2:

Select first_name, last_name, employee_id, phone_number, min(salary), department_id from employees group by department_id;

```
MariaDB [area120]> Select first_name, last_name, employee_id, phone_number, min(salary), department_id from employees group by department_id;

| first_name | last_name | employee_id | phone_number | min(salary) | department_id |

| Jannatun | Ripty | EMP08 | +8801897654008 | 120000 | DPT005 |
| Adiba | Azmi | EMP07 | +8801897654007 | 121000 | DPT006 |
| Anisha | Megha | EMP04 | +8801897654004 | 124000 | DPT007 |
| Sanjida | Ritu | EMP02 | +8801897654002 | 127000 | DPT008 |
| Syeda | Mahjabin | EMP01 | +8801897654001 | 129000 | DPT009 |
| 5 rows in set (0.001 sec)
```

TASK-3:

Select first_name, last_name, employee_id, commission_pct, department_id from employees where department_id like "DPT007" and commission_pct < (select min(commission_pct) from employees where department_id like "DPT005");

MariaDB [area120]> Select first_name, last_name, employee_id, commission_pct, department_id from employees where department_id like "DPT007" and commission_pct < (select mi n(commission_pct) from employees where department_id like "DPT005"); Empty set (0.000 sec)

TASK-4:

Select department id, count(*) from employees where salary <= 30000 group by department id;

```
MariaDB [area120]> Select department_id, count(*) from employees where salary<= 30000 group by department_id;
Empty set (0.005 sec)
```

TASK-5:

select department_id, job_id, commission_pct from employees E1 where exists (select * from employees E2 where E1.department_id = E2.department_id and E1.job_id != E2.job_id and E1.commission pct < E2.commission pct);

```
MariaDB [area120]> select department_id, job_id, commission_pct from employees E1 where exists (select * from employees E2 where E1.department_id = E2.department_id and E1.
job_id |= E2.job_id and E1.commission_pct < E2.commission_pct);

| department_id | job_id | commission_pct |

| DPT088 | JOB008 | 20.132 |
| DPT097 | JOB006 | 19.893 |
| DPT097 | JOB006 | 19.893 |
| DPT097 | JOB009 | 20.142 |
| DPT096 | JOB009 | 10.435 |
| DPT095 | JOB009 | 10.435 |
| DPT095 | JOB008 | 15.657 |

5 rows in set (0.001 sec)
```

TASK-6:

Select distinct manager_id FROM Employees Emp1 where not exists(SELECT manager_id from Employees Emp2 where Emp1.manager_id = Emp2.manager_id and Emp2.salary <= 3500);

TASK-7:

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

first_name	last_name	employee_id	email	salary	department_id	min(commission_pct)	
Jannatun	Ripty	EMP08	jannatun_ripty@gmail.com	122000	DPT005	15.657	
Adiba	Azmi	EMP07	adiba azmi@gmail.com	123000	DPT006	10.435	
Anisha	Megha	EMP04	anisha_megha@gmail.com	126000	DPT007	19.893	
Sanjida	Ritu	EMP02	sanjida_ritu@gmail.com	128000	DPT008	20.132	
Syeda	Mahjabin	EMP01	syeda_mahjabin@gmail.com	129000	DPT009	20.999	