Name: Habibun Nabi Hemel

ld:22241042

Section:10

Lab assignment: 02

#### **Table Creation**

# Creating Database Named 'assignment\_two'

# Creating a table named 'employees' with given information

```
MariaDB [assignment_two]> 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 (0.013 sec)
```

## **Newly Created Table**

Field   Type +   employee_id   char	· <del>-</del> -	Null	Key	Default	Evtra l
	-(10)				LXCI a
last_name	char(20)   char(20)   char(60)   c(14)   c(10)	YES   YES		NULL   NULL	

# Giving Data

#### **Table**

employee id	first name	last name	email	tonhone number	hire date	ioh id	salarv	commission pct	manager id	department id
	1113C_11dille	tast_name	Ciliait	pilone_number +		JOD_14	y	COMMITSSION_PCC	manager_iu	
EMP001	Md Sakib	Sadman	sakib@mail.com	555-555-555	2021-01-21	JOB001	90000	15.630	MNG001	DPT001
EMP002	Nahid	Hassan	nahid@gmail.com	555-555-5556	2013-10-29	J0B002	10000	10.520	MNG001	DPT003
EMP003	Habib Un	Hemel	hemel@yahoo.com	555-555-5557	2022-10-03	J0B003	50000	8.020	MNG002	DPT001
EMP004	Nida	Raisa	nida@gmail.com	555-555-5558	2017-05-14	J0B004	28000	12.670	MNG002	DPT005
EMP005	Durjoy	Paul	durjoy@gmail.com	555-555-5559	2015-07-05	J0B005	25000	18.120	MNG001	DPT005
EMP006	Jaber	Hossain	jaber@gmail.com	555-555-5560	2011-11-06	J0B006	72000	6.070	MNG003	DPT003
EMP007	Ishrak	Hamim	ishrak@gmail.com	555-555-5561	2023-10-07	J0B007	16000	13.550	MNG003	DPT007
EMP008	Siam	Ferdous	siam@yahoo.com	555-555-5562	2023-10-18	J0B008	79000	9.100	MNG002	DPT007
EMP009	Uday	Khan	uday@yahoo.com	555-555-5563	2022-06-09	J0B009	60000	7.000	MNG002	DPT003
EMP010	Sirajum	Munira	munira@yahoo.com	555-555-5564	2018-06-06	J0B010	44000	11.543	MNG001	DPT001
EMP011	Zaynul	Abedin	abed@gmail.com	555-555-5565	2020-07-11	J0B011	59500	16.060	MNG003	DPT007
EMP012	Syeda	Raisa	raisa@outlook.com	555-555-5566	2023-04-02	J0B012	78300	19.147	MNG002	DPT007

#### Task 1

#### Task 2

```
MariaDB [assignment_two]> SELECT first_name, last_name, employee_id, phone number, salary, department_id
    -> FROM employees e1
    -> WHERE salary = (
    -> SELECT MIN(salary)
    -> FROM employees e2
    -> WHERE e1.department_id = e2.department_id);
 first name | last name | employee id | phone number | salary | department id |
                                        555-555-5556
 Nahid
              Hassan
                          FMP002
                                                         10000
                                                                DPT003
                                         555-555-5559
 Durjoy
              Paul
                           EMP005
                                                         25000
                                                                 DPT005
                                        555-555-5561
 Ishrak
              Hamim
                           EMP007
                                                         16000 | DPT007
              Munira
                          EMP010
                                       i 555-555-5564 i
                                                        44000 | DPT001
 Sirajum
 rows in set (0.001 sec)
```

### Task 3

### Task 4

### Task 5

```
MariaDB [assignment two]> SELECT department id, job id, commission pct
    -> FROM employees e1
    -> WHERE commission pct < ANY (
    -> SELECT commission pct
    -> FROM employees e2
    -> WHERE e1.department_id = e2.department_id
    -> AND e1.job id <> e2.job id );
  department id | job id | commission pct
                  J0B003 I
  DPT001
                                      8.020
                 | J0B004 |
| J0B006 |
| J0B007 |
| J0B008 |
| J0B009 |
 DPT005
                                     12.670
 DPT003
                                      6.070
  DPT007
                                     13.550
  DPT007
                                      9.100
                                      7.000
  DPT003
 DPT001
                  | JOB010
                                     11.543
 DPT007
                 | JOB011 |
                                     16.060
8 rows in set (0.001 sec)
```

### Task 6

### Task 7

```
ariaDB [assignment two]> SELECT first name, last name, employee id, email, salary, department id, commission pc
   -> FROM employees
   -> WHERE (manager_id, commission_pct) IN (
-> SELECT manager_id, MIN(commission_pct)
   -> FROM employees
   -> GROUP BY manager_id);
first_name | last_name | employee_id | email
                                                              | salary | department_id | commission_pct |
Nahid
                            EMP002
                                            nahid@gmail.com |
                                                                 10000
                                                                          DPT003
                                                                                                     10.520
              Hassan
                            EMP006
                                            jaber@gmail.com
                                                                 72000
                                                                          DPT003
               Hossain
                            EMP009
                                            uday@yahoo.com
                                                                 60000
                                                                                                      7.000
rows in set (0.001 sec)
```

#### **Create 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));
```

#### Insert values

#### **INSERT INTO employees VALUES**

('EMP001', 'Md Sakib', 'Sadman', 'sakib@mail.com', '555-555-5555', '2021-01-21', 'JOB001', 90000, 15.63, 'MNG001', 'DPT001'),

('EMP002', 'Nahid', 'Hassan', 'nahid@gmail.com', '555-555-5556', '2013-10-29', 'JOB002', 10000, 10.52, 'MNG001', 'DPT003'),

('EMP003', 'Habib Un', 'Hemel', 'hemel@yahoo.com', '555-555-557', '2022-10-03', 'JOB003', 50000, 8.02, 'MNG002', 'DPT001'),

('EMP004', 'Nida', 'Raisa', 'nida@gmail.com', '555-555-5558', '2017-05-14', 'JOB004', 28000, 12.67, 'MNG002', 'DPT005'),

('EMP005', 'Durjoy', 'Paul', 'durjoy@gmail.com', '555-555-5559', '2015-07-05', 'JOB005', 25000, 18.12, 'MNG001', 'DPT005'),

('EMP006', 'Jaber', 'Hossain', 'jaber@gmail.com', '555-555-5560', '2011-11-06', 'JOB006', 72000, 6.07, 'MNG003', 'DPT003'),

('EMP007', 'Ishrak', 'Hamim', 'ishrak@gmail.com', '555-555-5561', '2023-10-07', 'JOB007', 16000, 13.55, 'MNG003', 'DPT007'),

('EMP008', 'Siam', 'Ferdous', 'siam@yahoo.com', '555-555-5562', '2023-10-18', 'JOB008', 79000, 9.1, 'MNG002', 'DPT007'),

('EMP009', 'Uday', 'Khan', 'uday@yahoo.com', '555-555-5563', '2022-06-09', 'JOB009', 60000, 7, 'MNG002', 'DPT003'),

('EMP010', 'Sirajum', 'Munira', 'munira@yahoo.com', '555-555-5564', '2018-06-06', 'JOB010', 44000, 11.543, 'MNG001', 'DPT001'),

('EMP011', 'Zaynul', 'Abedin', 'abed@gmail.com', '555-555-5565', '2020-07-11', 'JOB011', 59500, 16.06, 'MNG003', 'DPT007'),

('EMP012', 'Syeda', 'Raisa', 'raisa@outlook.com', '555-555-5566', '2023-04-02', 'JOB012', 78300, 19.147, 'MNG002', 'DPT007');

#### Task 1

SELECT first\_name, last\_name, email, phone\_number, hire\_date, department\_id FROM employees
WHERE hire\_date = (SELECT MAX(hire\_date) FROM employees);

#### Task 2

#### Task 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');

#### Task 4

SELECT department\_id, count(\*) FROM employees WHERE salary <= 30000 GROUP BY department\_id;

#### Task 5

SELECT department\_id, job\_id, commission\_pct
FROM employees e1
WHERE commission\_pct < ANY (
SELECT commission\_pct
FROM employees e2
WHERE e1.department\_id = e2.department\_id
AND e1.job\_id <> e2.job\_id );

# Task 6

SELECT DISTINCT manager\_id FROM employees GROUP BY manager\_id HAVING MIN(salary) >= 3500;

#### Task 7