

LAB 02

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Section: 18

## Table Creation

```
mysql> SELECT * FROM Employee;
```

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	comission_pct	manager_id	department_id
EMP001	Tazwar	Saif	tazwarsaif02@gmail.com	+8801552467117	2024-02-01	JOB001	20000	10.650	MNG001	DPT001
EMP002	Arisha	Zaman	arishazaman23@gmail.com	+8801676869221	2024-02-15	JOB002	36000	9.670	MNG002	DPT002
EMP003	Mazeef	Karim	kazinazeef@gmail.com	+8801797949311	2024-03-17	JOB003	40000	15.650	MNG001	DPT001
EMP004	Rumi	Chowdhury	mehdihasan@gmail.com	+8801376869231	2024-01-15	JOB004	30000	11.700	MNG003	DPT003
EMP005	Sumon	Siddik	sumonsiddik@gmail.com	+8801682820849	2024-02-20	JOB005	40000	15.650	MNG005	DPT005
EMP006	Kazi	Shanta	kazishanta@gmail.com	+8801679467917	2024-01-01	JOB006	45000	15.000	MNG005	DPT005
EMP007	Anisur	Rahman	anisurrahman@gmail.com	+8801891629221	2024-06-09	JOB007	37000	11.500	MNG002	DPT002
EMP008	Rejaul	Haque	rejaulh67@gmail.com	+8801559749312	2024-03-01	JOB008	40000	15.500	MNG004	DPT004
EMP009	Gourer	Chowdhury	gourerch90@gmail.com	+8801971249631	2024-02-17	JOB009	30000	10.000	MNG006	DPT006
EMP010	Sohel	Sarwar	sohelss89@gmail.com	+8801714024939	2024-05-07	JOB010	42000	17.000	MNG007	DPT007
EMP011	Naweed	Karim	kazink67@gmail.com	+8801714024888	2024-01-07	JOB011	30000	8.600	MNG007	DPT007

```
11 rows in set (0.00 sec)
```

1.

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

```
mysql> SELECT first_name, last_name, email, phone_number, hire_date, department_id FROM Employee WHERE hire_date = (SELECT MAX(hire_date) FROM Employee);
```

first_name	last_name	email	phone_number	hire_date	department_id
Anisur	Rahman	anisurrahman@gmail.com	+8801891629221	2024-06-09	DPT002

```
1 row in set (0.38 sec)
```

2. SELECT first\_name, last\_name, employee\_id, phone\_number, salary as minSalary, department\_id FROM Employee WHERE (department\_id,salary) IN (SELECT department\_id, MIN(salary) FROM Employee GROUP BY department\_id);

```
mysql> SELECT first_name, last_name, employee_id, phone_number, salary as minSalary, 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	minSalary	department_id
Tazwar	Saif	EMP001	+8801552467117	20000	DPT001
Arisha	Zaman	EMP002	+8801676869221	36000	DPT002
Rumi	Chowdhury	EMP004	+8801376869231	30000	DPT003
Sumon	Siddik	EMP005	+8801682820849	40000	DPT005
Rejaul	Haque	EMP008	+8801559749312	40000	DPT004
Gourer	Chowdhury	EMP009	+8801971249631	30000	DPT006
Naweed	Karim	EMP011	+8801714024888	30000	DPT007

```
7 rows in set (0.03 sec)
```

3. SELECT first\_name, last\_name, employee\_id, comission\_pct, department\_id FROM Employee WHERE department\_id = 'DPT007' and comission\_pct < ALL(SELECT comission\_pct FROM Employee WHERE department\_id = 'DPT005');

```
mysql> SELECT first_name, last_name, employee_id, comission_pct, department_id FROM Employee WHERE department_id = 'DPT007' and comission_pct < ALL(SELECT comission_pct FROM Employee WHERE department_id = 'DPT005');
```

first_name	last_name	employee_id	comission_pct	department_id
Naweed	Karim	EMP011	8.600	DPT007

```
1 row in set (0.00 sec)
```

4. SELECT department\_id, count(\*) as Total\_employee FROM Employee WHERE department\_id not in (SELECT department\_id FROM Employee WHERE salary>30000) GROUP BY department\_id;

```
mysql> SELECT department_id, count(*) as Total_employee FROM Employee WHERE department_id not in (SELECT department_id FROM Employee WHERE salary>30000) GROUP BY department_id;
```

department_id	Total_employee
DPT003	1
DPT006	1

```
2 rows in set (0.00 sec)
```

5. SELECT department\_id, comission\_pct FROM Employee e1 WHERE comission\_pct < ANY(SELECT comission\_pct FROM Employee e2 WHERE e2.department\_id=e1.department\_id and e2.job\_id != e1.job\_id);

```
mysql> SELECT department_id, comission_pct FROM Employee e1 WHERE comission_pct < ANY(SELECT comission_pct FROM Employee e2 WHERE e2.department_id=e1.department_id and e2.job_id != e1.job_id);
```

department_id	comission_pct
DPT001	10.650
DPT002	9.670
DPT005	15.000
DPT007	8.600

4 rows in set (0.00 sec)

6. SELECT manager\_id FROM Employee GROUP BY manager\_id having MIN(salary) >= 3500;

```
mysql> SELECT manager_id FROM Employee GROUP BY manager_id having MIN(salary) >= 3500;
```

manager_id
MNG001
MNG002
MNG003
MNG005
MNG004
MNG006
MNG007

7 rows in set (0.05 sec)

7. SELECT first\_name, last\_name, employee\_id, email, salary, department\_id, comission\_pct FROM Employee e1 WHERE comission\_pct = (SELECT MIN(comission\_pct) FROM Employee e2 WHERE e1.manager\_id=e2.manager\_id);

```
mysql> SELECT first_name, last_name, employee_id, email, salary, department_id, comission_pct FROM Employee e1 WHERE comission_pct = (SELECT MIN(comission_pct) FROM Employee e2 WHERE e1.manager_id=e2.manager_id);
```

first_name	last_name	employee_id	email	salary	department_id	comission_pct
Tazwar	Saif	EMP001	tazwarsaif02@gmail.com	20000	DPT001	10.650
Arisha	Zaman	EMP002	arishazaman23@gmail.com	36000	DPT002	9.670
Rumi	Chowdhury	EMP004	mehdihasan@gmail.com	30000	DPT003	11.700
Kazi	Shanta	EMP006	kazishanta@gmail.com	45000	DPT005	15.000
Rejaul	Haque	EMP008	rejaulh67@gmail.com	40000	DPT004	15.500
Gourer	Chowdhury	EMP009	gourerch90@gmail.com	30000	DPT006	10.000
Naweed	Karin	EMP011	kazink67@gmail.com	30000	DPT007	8.600

7 rows in set (0.00 sec)