

**TUGAS PRAKTIKUM BASIS DATA  
(SDT.PBD11)**



**Disusun Untuk Memenuhi Tugas  
Mata Kuliah:  
Praktikum Basis Data**

**Oleh:  
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**PROGRAM STUDI D4 SAINS DATA TERAPAN  
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA**

## 1. Menampilkan struktur tabel

```
postgres=# \c HR
You are now connected to database "HR" as user "postgres".
HR=# \d employees
```

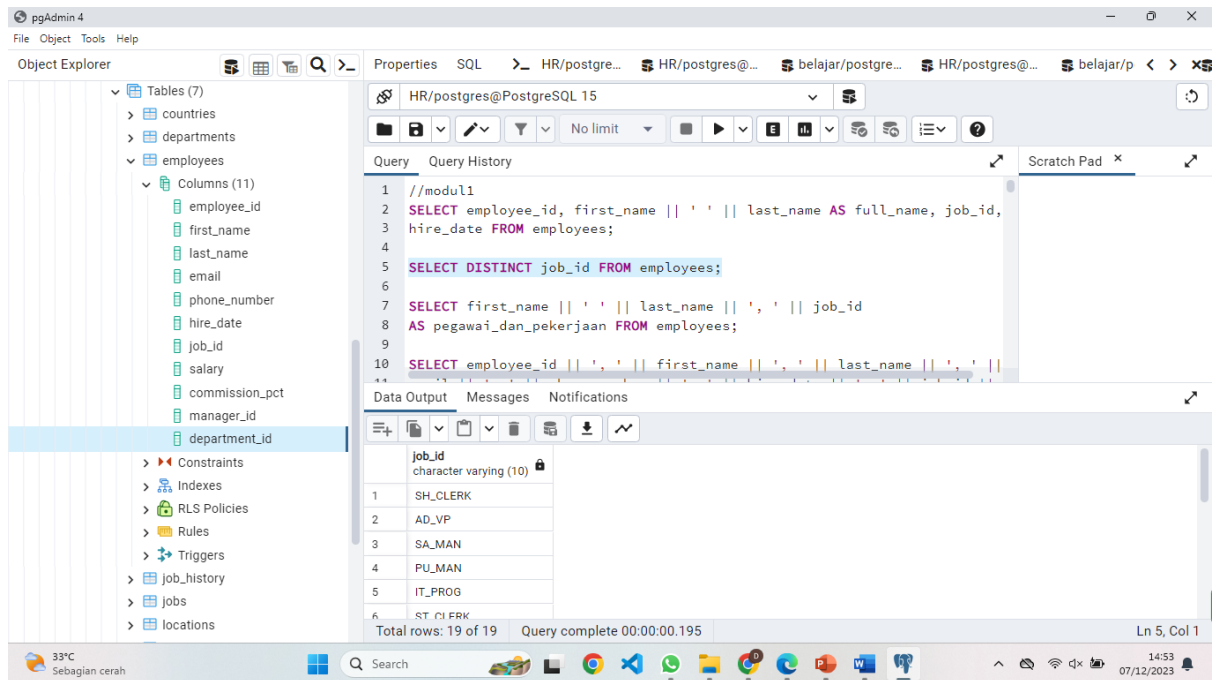
Column	Type	Table "public.employees"	Collation	Nullable	Default
employee_id	integer			not null	nextval('employees_employee_id_seq'::regclass)
first_name	character varying(20)				
last_name	character varying(25)			not null	
email	character varying(25)			not null	
phone_number	character varying(20)				
hire_date	timestamp without time zone			not null	
job_id	character varying(10)			not null	
salary	numeric(8,2)				
commission_pct	numeric(2,2)				
manager_id	integer				
department_id	integer				

2. Tampilkan struktur dari table EMPLOYESS. Buat query untuk menampilkan nomer pegawai, nama, pekerjaan, dan tanggal mulai bekerja untuk tiap pegawai.

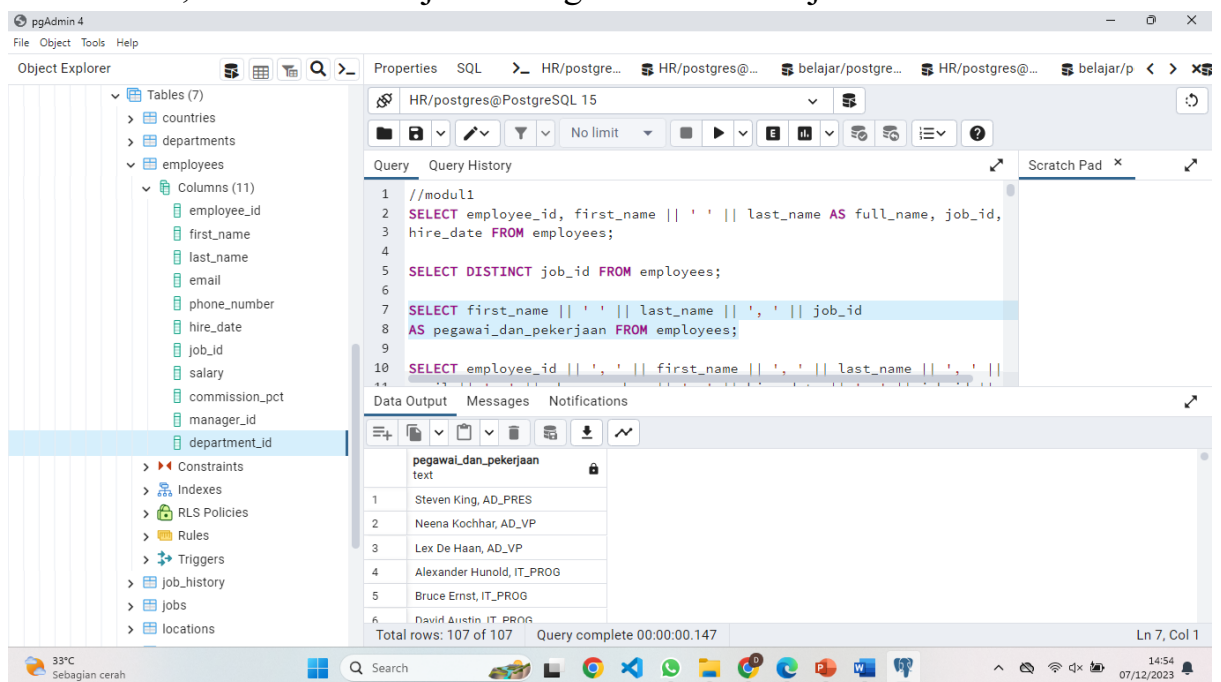
The screenshot shows the pgAdmin 4 interface. On the left, the Object Explorer shows the 'employees' table selected. The main pane displays the table's structure with columns: employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, commission\_pct, manager\_id, and department\_id. The 'Data Output' pane shows the results of a query that selects employee\_id, full\_name (concatenation of first\_name and last\_name), job\_id, and hire\_date. The results show 6 rows of data.

employee_id	full_name	job_id	hire_date
1	Steven King	AD_PRES	1987-06-17 00:00:00
2	Neena Kochhar	AD_VP	1989-09-21 00:00:00
3	Lex De Haan	AD_VP	1993-01-13 00:00:00
4	Alexander Hunold	IT_PROG	1990-01-03 00:00:00
5	Bruce Ernst	IT_PROG	1991-05-21 00:00:00
6	David Austin	IT_PROG	1997-06-25 00:00:00

3. Buat query untuk menampilkan pekerjaan secara unik dari table EMPLOYEES.



4. Tampilkan nama pegawai digabung dengan pekerjaan dengan dipisah tanda koma, kemudian beri judul “Pegawai dan Pekerjaan”



5. Buat query untuk menampilkan semua kolom dari table EMP. Semua kolom digabung jadi satu dengan tanda koma sebagai pemisah, kemudian beri judul “OUTPUT”

pgAdmin 4

File Object Tools Help

Object Explorer

- Tables (7)
  - countries
  - departments
  - employees
    - Columns (11)
      - employee\_id
      - first\_name
      - last\_name
      - email
      - phone\_number
      - hire\_date
      - job\_id
      - salary
      - commission\_pct
      - manager\_id
      - department\_id
    - Constraints
    - Indexes
    - RLS Policies
    - Rules
    - Triggers
    - job\_history
    - jobs
    - locations

Properties SQL HR/postgre... HR/postgres@... belajar/postgre... HR/postgres@... belajar/p

HR/postgres@PostgreSQL 15

No limit

Query Query History

```
7 SELECT first_name || ' ' || last_name || ', ' || job_id
8 AS pegawai_dan_pekerjaan FROM employees;
9
10 SELECT employee_id || ', ' || first_name || ' ' || last_name || ', ' ||
11 email || ' ' || phone_number || ' ' || hire_date || ' ' || job_id ||
12 ' ' || salary || ' ' || commission_pct || ' ' || manager_id || ' ' ||
13 department_id AS "output" FROM employees;
14
15 //modul2
16 SELECT employee_id, first_name || ' ' || last_name AS ENAME, salary
```

Data Output Messages Notifications

	output
1	[null]
2	[null]
3	[null]
4	[null]
5	[null]
6	[null]

Total rows: 107 of 107 Query complete 00:00:00.177 Ln 10, Col 1

33°C Sebagian cerah

Search

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