

PRAKTIKUM 3

PEMROGRAMAN BASIS DATA

Nama : Made Baihaqi Aji Kumuda

NIM : 152011513029

Untuk menjalankan perintah-perintah dalam soal berikut, gunakan database HR. Lalu ikuti instruksi dosen untuk melakukan duplikat tabel locations, departments, jobs, dan employees ke tabel copy_loc, copy_dep, copy_job, dan copy_emp. Setelah melakukan duplikasi, gunakan tabel hasil duplikasi sebagai tempat kerja Anda.

- 1. Buat query untuk menambahkan data pegawai baru dengan perintah INSERT dengan ketentuan sebagai berikut:**

ID : 207
Nama depan : Fitri
Nama belakang : Retrialisca
Email : fitrir
Hire date : 18 September 2021
Pekerjaan : IT_PROG
Gaji : 7000
Departemen : 60

ID : 207
Nama depan : Nania
Nama belakang : Nuzulita
Email : nanian
Hire date : 20 September 2021
Pekerjaan : FI_ACCOUNT
Gaji : 5000
Departemen : 100

```
INSERT INTO copy_employees  
(EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, HIRE_DATE, JOB_ID,  
SALARY, DEPARTMENT_ID)
```

```
VALUES  
(207, 'Fitri', 'Retrialisca', 'fitrir', '2021-09-18', 'IT_PROG', 7000, 60),  
  
(208, 'Nania', 'Nuzulita', 'nanian', '2021-09-20', 'FI_ACCOUNT', 5000, 100)
```

Options

1 > >> ☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_INTEGER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
<input type="checkbox"/>	208	Nania	Nuzulita	nanian	NULL	2021-09-20	FI_ACCOUNT	5000.00	NULL	NULL	100
<input type="checkbox"/>	207	Filtri	Retrialisca	fitrir	NULL	2021-09-18	IT_PROG	7000.00	NULL	NULL	60
<input type="checkbox"/>	206	William	Gietz	WGIEZ	515.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NULL	205	110
<input type="checkbox"/>	205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	NULL	101	110
<input type="checkbox"/>	204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NULL	101	70
<input type="checkbox"/>	203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NULL	101	40
<input type="checkbox"/>	202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000.00	NULL	201	20
<input type="checkbox"/>	201	Michael	Hartstein	MHARTSTE	515.123.5555	1996-02-17	MK_MAN	13000.00	NULL	100	20
<input type="checkbox"/>	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-17	AD_ASST	4400.00	NULL	101	10

2. Buat query untuk menambahkan data pekerjaan baru dengan perintah INSERT dengan ketentuan sebagai berikut:

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
IT_NET	Network Admin	7500	12500
IT_DBA	DB Admin	7700	15000
IT_DES	System Designer	10000	25000
IT_ANL	System Analyst	17500	30000
IT_ADM	System Admin	6000	7800

```

INSERT INTO copy_jobs
VALUES
('IT_NET','Network Admin', 7500, 12500),
('IT_DBA','DB Admin', 7700, 15000),
('IT_DES','System Designer', 10000, 25000),
('IT_ANL','System Analyst', 17500, 30000),
('IT_ADM','System Admin', 6000, 7800);

```

Options

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
<input type="checkbox"/>	AC_ACCOUNT	Public Accountant	4200	9000
<input type="checkbox"/>	AC_MGR	Accounting Manager	8200	16000
<input type="checkbox"/>	AD_ASST	Administration Assistant	3000	6000
<input type="checkbox"/>	AD_PRES	President	20000	40000
<input type="checkbox"/>	AD_VP	Administration Vice President	15000	30000
<input type="checkbox"/>	FI_ACCOUNT	Accountant	4200	9000
<input type="checkbox"/>	FI_MGR	Finance Manager	8200	16000
<input type="checkbox"/>	HR_REP	Human Resources Representative	4000	9000
<input type="checkbox"/>	IT_ADM	System Admin	6000	7800
<input type="checkbox"/>	IT_ANL	System Analyst	17500	30000
<input type="checkbox"/>	IT_DBA	DB Admin	7700	15000
<input type="checkbox"/>	IT_DES	System Designer	10000	25000
<input type="checkbox"/>	IT_NET	Network Admin	7500	12500
<input type="checkbox"/>	IT_PROG	Programmer	4000	10000
<input type="checkbox"/>	MK_MAN	Marketing Manager	9000	15000
<input type="checkbox"/>	MK_REP	Marketing Representative	4000	9000
<input type="checkbox"/>	NET_MAN	Network Manager	50000	70000

3. Lakukan modifikasi data sebagai berikut:

a. Manager ID Fitri menjadi 104

```
UPDATE copy_employees  
SET MANAGER_ID = 104  
WHERE EMPLOYEE_ID = 207
```

Options														
EMPLOYEE_ID FIRST_NAME LAST_NAME EMAIL PHONE_INTEGER HIRE_DATE JOB_ID SALARY COMMISSION_PCT MANAGER_ID DEPARTMENT_ID														
<input type="checkbox"/>	Edit	Copy	Delete	208	Nania	Nuzulita	nanian	NULL	2021-09-20	FI_ACCOUNT	5000.00	NULL	NULL	100
<input type="checkbox"/>	Edit	Copy	Delete	207	Fitri	Retrialisca	fitrir	NULL	2021-09-18	IT_PROG	7000.00	NULL	104	60
<input type="checkbox"/>	Edit	Copy	Delete	206	William	Gietz	WGIEZ	515.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NULL	205	110
<input type="checkbox"/>	Edit	Copy	Delete	205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	NULL	101	110
<input type="checkbox"/>	Edit	Copy	Delete	204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NULL	101	70
<input type="checkbox"/>	Edit	Copy	Delete	203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NULL	101	40
<input type="checkbox"/>	Edit	Copy	Delete	202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000.00	NULL	201	20

b. Semua karyawan yang bekerja sebagai akuntan sekarang bekerja sebagai programmer

```
UPDATE copy_employees  
SET JOB_ID = 'IT_PROG'  
WHERE JOB_ID = 'FI_ACCOUNT'
```

Sebelum :

EMPLOYEE_ID FIRST_NAME LAST_NAME EMAIL PHONE_INTEGER HIRE_DATE JOB_ID SALARY COMMISSION_PCT MANAGER_ID DEPARTMENT_ID														
<input type="checkbox"/>				208	Nania	Nuzulita	nanian	NULL	2021-09-20	FI_ACCOUNT	5000.00	NULL	NULL	100
<input type="checkbox"/>				207	Fitri	Retrialisca	fitrir	NULL	2021-09-18	IT_PROG	7000.00	NULL	NULL	60
<input type="checkbox"/>				206	William	Gietz	WGIEZ	515.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NULL	205	110
<input type="checkbox"/>				205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	NULL	101	110
<input type="checkbox"/>				204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NULL	101	70
<input type="checkbox"/>				203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NULL	101	40

Sesudah :

SELECT FROM emp_employees ORDER BY employee_id ASC

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>>

☐ Show all

Number of rows: 25

Filter rows: IT_PROG

Sort by key: PRIMARY (DESC)

+ Options

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EMPLOYEE_ID

FIRST_NAME

LAST_NAME

EMAIL

PHONE_INTEGER

HIRE_DATE

JOB_ID

SALARY

COMMISSION_PCT

MANAGER_ID

DEPARTMENT_ID

<input type="checkbox"/>				208	Nania	Nuzulita	nanian	NULL	2021-09-20	IT_PROG	5000.00	NULL	NULL	100
<input type="checkbox"/>				207	Fitri	Retrialisca	fitrir	NULL	2021-09-18	IT_PROG	7000.00	NULL	104	60

↑

☐ Check all

With selected:

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Export

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☐ Show all

Number of rows: 25

Filter rows: IT_PROG

Sort by key: PRIMARY (DESC)

Query results operations

- c. Semua gaji minimum pada tabel data pekerjaan dinaikkan sebesar 500 untuk yang gaji minimumnya di bawah 5000

- Menampilkan gaji yang dibawah 5000 terlebih dahulu menggunakan syntax

```
SELECT*FROM copy_jobs  
WHERE MIN_SALARY <= 5000
```

Showing rows 0 - 9 (10 total, Query took 0.0019 seconds.)

```
SELECT*FROM copy_jobs WHERE MIN_SALARY <= 5000;
```

[Edit inline] [Edit] [Create PHP code]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

				JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
<input type="checkbox"/>	Edit	Copy	Delete	AC_ACCOUNT	Public Accountant	4200	9000
<input type="checkbox"/>	Edit	Copy	Delete	AD_ASST	Administration Assistant	3000	6000
<input type="checkbox"/>	Edit	Copy	Delete	FI_ACCOUNT	Accountant	4200	9000
<input type="checkbox"/>	Edit	Copy	Delete	HR_REP	Human Resources Representative	4000	9000
<input type="checkbox"/>	Edit	Copy	Delete	IT_PROG	Programmer	4000	10000
<input type="checkbox"/>	Edit	Copy	Delete	MK_REP	Marketing Representative	4000	9000
<input type="checkbox"/>	Edit	Copy	Delete	PR_REP	Public Relations Representative	4500	10500
<input type="checkbox"/>	Edit	Copy	Delete	PU_CLERK	Purchasing Clerk	2500	5500
<input type="checkbox"/>	Edit	Copy	Delete	SH_CLERK	Shipping Clerk	2500	5500
<input type="checkbox"/>	Edit	Copy	Delete	ST_CLERK	Stock Clerk	2000	5000

↑ ☐ Check all With selected: Edit Copy Delete Export

- Salah satu contoh hasil penambahan (PU CLERIK, SH CLERIK,ST CLERIK)

```
UPDATE copy_jobs  
SET MIN_SALARY = MIN_SALARY + 500  
WHERE MIN_SALARY <= 5000
```

+ Options

				JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
<input type="checkbox"/>	Edit	Copy	Delete	PU_CLERK	Purchasing Clerk	3000	5500
<input type="checkbox"/>	Edit	Copy	Delete	SH_CLERK	Shipping Clerk	3000	5500
<input type="checkbox"/>	Edit	Copy	Delete	ST_CLERK	Stock Clerk	2500	5000

↑ ☐ Check all With selected: Edit Copy Delete Export

- d. Semua yang bekerja pada departemen ID 60 dipindahkan ke departemen ID 75

```
UPDATE copy_employees
SET DEPARTMENT_ID = 75
WHERE DEPARTMENT_ID = 60
```

■ Sebelum :

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_INTEGER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
207	Fitri	Retrialisca	fitri	NULL	2021-09-18	IT_PROG	7000.00	NULL	104	60
202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000.00	NULL	201	20

■ Sesudah :

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_INTEGER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
208	Nania	Nuzulita	nanian	NULL	2021-09-20	IT_PROG	5000.00	NULL	NULL	100
207	Fitri	Retrialisca	fitri	NULL	2021-09-18	IT_PROG	7000.00	NULL	104	75
206	William	Gietz	WGIEZ	515.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NULL	205	110
205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	NULL	101	110
204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NULL	101	70

- e. Semua departemen yang ID-nya lebih dari atau sama dengan 200 dipindahkan ke lokasi nomor 1300

```
UPDATE copy_departements
SET LOCATION_ID = 1300
WHERE DEPARTMENT_ID >= 200
```

■ Sebelum :

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
200	Operations	NULL	1700
210	IT Support	NULL	1700
220	NOC	NULL	1700
230	IT Helpdesk	NULL	1700
240	Government Sales	NULL	1700
250	Retail Sales	NULL	1700
260	Recruiting	NULL	1700
270	Payroll	NULL	1700

■ Sesudah :



				DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
<input type="checkbox"/>	Edit	Copy	Delete	200	Operations	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	210	IT Support	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	220	NOC	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	230	IT Helpdesk	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	240	Government Sales	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	250	Retail Sales	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	260	Recruiting	NULL	1300
<input type="checkbox"/>	Edit	Copy	Delete	270	Payroll	NULL	1300

4. Lakukan penghapusan terhadap:

a. Karyawan yang berada di bawah departemen IT

```
DELETE FROM copy_employees  
WHERE JOB_ID LIKE "IT%"
```

■ Sebelum :

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>>

☐ Show all

Number of rows: 25

Filter rows: IT

Sort by key: PRIMARY (DESC)

Options

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▼

EMPLOYEE_ID

1

FIRST_NAME

1

LAST_NAME

1

EMAIL

1

PHONE_INTEGER

1

HIRE_DATE

1

JOB_ID

1

SALARY

1

COMMISSION_PCT

1

MANAGER_ID

1

DEPARTMENT_ID

☐

Edit

Copy

Delete

208

Nania

Nuzulita

nanian

NULL

2021-09-20

IT_PROG

5000.00

NULL

NULL

100

☐

Edit

Copy

Delete

207

Fitri

Retrialisca

fitrir

NULL

2021-09-18

IT_PROG

7000.00

NULL

104

75

☐

Edit

Copy

Delete

193

Britney

Everett

BEVERETT

650.501.2876

1997-03-03

SH_CLERK

3900.00

NULL

123

50

☐

Edit

Copy

Delete

184

Nandita

Sarchand

NSARCHAN

650.509.1876

1996-01-27

SH_CLERK

4200.00

NULL

121

50

←

Check all

With selected:

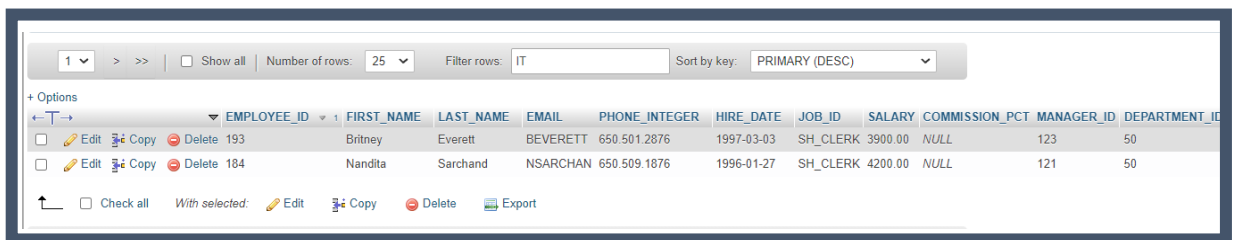
Edit

Copy

Delete

Export

■ Sesudah :



				EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_INTEGER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
<input type="checkbox"/>	Edit	Copy	Delete	193	Britney	Everett	BEVERETT	650.501.2876	1997-03-03	SH_CLERK	3900.00	NULL	123	50
<input type="checkbox"/>	Edit	Copy	Delete	184	Nandita	Sarchand	NSARCHAN	650.509.1876	1996-01-27	SH_CLERK	4200.00	NULL	121	50

b. Karyawan dengan nama Randall Perkins

```
DELETE FROM copy_employees
WHERE FIRST_NAME = "Randall"
```

- Sebelum :

1 > >> ☐ Show all Number of rows: 25 Filter rows: Randall Sort by key: PRIMARY (DESC)

+ Options

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_INTEGER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
<input type="checkbox"/> 191		Randall	Perkins	RPERKINS	650.550.4876	1999-12-19	SH_CLERK	2500.00	NULL	122	50

- Sesudah :

1 > >> ☐ Show all Number of rows: 25 Filter rows: Sort by key: None

+ Options

EMPLOYEE_ID FIRST_NAME LAST_NAME EMAIL PHONE_INTEGER HIRE_DATE JOB_ID SALARY COMMISSION_PCT MANAGER_ID DEPARTMENT_ID

Check all With selected: Edit Copy Delete Export

c. Karyawan yang bekerja pada departemen Shipping DAN gajinya di bawah 3000

```
DELETE FROM copy_employees
WHERE JOB_ID = "SH_CLERK" && SALARY < 3000
```

- Sebelum :

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Options

EMPLOYEE_ID

FIRST_NAME

LAST_NAME

EMAIL

PHONE_INTEGER

HIRE_DATE

JOB_ID

SALARY

COMMISSION_PCT

MANAGER_ID

DEPARTMENT_ID

182

Martha

Sullivan

MSULLIVA

650.507.9878

1999-06-21

SH_CLERK

2500.00

NULL

120

50

183

Giard

Geoni

GGEONI

650.507.9879

2000-02-03

SH_CLERK

2800.00

NULL

120

50

190

Timothy

Gates

TGATES

650.505.3876

1998-07-11

SH_CLERK

2900.00

NULL

122

50

195

Vance

Jones

VJONES

650.501.4876

1999-03-17

SH_CLERK

2800.00

NULL

123

50

198

Donald

OConnell

DOCONNEL

650.507.9833

1999-06-21

SH_CLERK

2600.00

NULL

124

50

199

Douglas

Grant

DGRANT

650.507.9844

2000-01-13

SH_CLERK

2600.00

NULL

124

50

- Sesudah :

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0013 seconds.)

SELECT * FROM copy_employees WHERE JOB_ID = "SH_CLERK" && SALARY < 3000;

[ Edit inline ] [ Edit ] [ Create PHP code ]
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_INTEGER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
-------------	------------	-----------	-------	---------------	-----------	--------	--------	----------------	------------	---------------

Query results operations

Create view

d. Departemen yang memiliki kata 'Sales' di dalam nama departemennya

```
DELETE FROM copy_departements  
WHERE DEPARTMENT_NAME LIKE "%sales%"
```

▪ Sebelum :

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☐ Show all

Number of rows: 25

Filter rows: sales

Sort by key: DEPT_MGR_FK (DESC)

+ Options

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DEPARTMENT_ID

DEPARTMENT_NAME

MANAGER_ID

1

LOCATION_ID

☐

80

Sales

145

2500

☐

250

Retail Sales

NULL

1300

☐

240

Government Sales

NULL

1300

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☐ Check all

With selected:

▪ Sesudah

☐ Show all

Number of rows: 25

Filter rows: sales

Sort by key: None

+ Options

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DEPARTMENT_ID

DEPARTMENT_NAME

MANAGER_ID

LOCATION_ID

↑

☐ Check all

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Delete

Export

☐ Show all

Number of rows: 25

Filter rows: sales

Sort by key: None

