

PRAKTIKUM 2

PEMROGRAMAN BASIS DATA

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Gunakan database HR untuk nomor 1-5

1. Buat query untuk menampilkan nomer pegawai, nama, pekerjaan, dan tanggal mulai bekerja untuk tiap pegawai!

```
SELECT z.EMPLOYEE_ID AS "NOMOR PEGAWAI", CONCAT (z.first_name,'
',z.last_name) AS NAME, x.JOB_TITLE AS PEKERJAAN, z.HIRE_DATE

FROM employees z, jobs x

WHERE z.JOB_ID = x.JOB_ID;
```

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✔ Showing rows 0 - 24 (107 total, Query took 0.0027 seconds.)

SELECT z.EMPLOYEE_ID AS "NOMOR PEGAWAI", CONCAT (z.first_name,' ',z.last_name) AS NAME, x.JOB_TITLE AS PEKERJAAN, z.HIRE_DATE AS HIRE_DATE FROM employees z, jobs x WHERE z.JOB_ID = x.JOB_ID

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

1 > >> | ☐ Show all | Number of rows: 25 | Filter rows:

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NOMOR PEGAWAI	NAME	PEKERJAAN	HIRE_DATE
206	William Gietz	Public Accountant	1994-06-07
205	Shelley Higgins	Accounting Manager	1994-06-07
200	Jennifer Whalen	Administration Assistant	1987-09-17
100	Steven King	President	1987-06-17
101	Neena Kochhar	Administration Vice President	1989-09-21
102	Lex De Haan	Administration Vice President	1993-01-13
109	Daniel Faviet	Accountant	1994-08-16
110	John Chen	Accountant	1997-09-28
111	Ismael Sciarra	Accountant	1997-09-30
112	Jose Manuel Urman	Accountant	1998-03-07
113	Luis Popp	Accountant	1999-12-07
108	Nancy Greenberg	Finance Manager	1994-08-17
203	Susan Mavris	Human Resources Representative	1994-06-07
103	Alexander Hunold	Programmer	1990-01-03
104	Bruce Ernst	Programmer	1991-05-21
105	David Austin	Programmer	1997-06-25
106	Valli Pataballa	Programmer	1998-02-05
107	Diana Lorentz	Programmer	1999-02-07
201	Michael Hartstein	Marketing Manager	1996-02-17
202	Pat Fay	Marketing Representative	1997-08-17
204	Hermann Baer	Public Relations Representative	1994-06-07
115	Alexander Khoo	Purchasing Clerk	1995-05-18
116	Shelli Baida	Purchasing Clerk	1997-12-24
117	Sigal Tobias	Purchasing Clerk	1997-07-24
118	Guy Himuro	Purchasing Clerk	1998-11-15

Console

2. Buat query untuk menampilkan gaji pegawai tahunan yang sudah ditambah dengan komisi.
Komisi diterima = gaji x commission_pct

```
SELECT (SALARY+(salary*COALESCE(commission_pct,0))) AS 'Gaji Tahunan'  
FROM employees;
```

✓ Showing rows 0 - 24 (107 total, Query took 0.0020 seconds.)

```
SELECT (SALARY+(salary*COALESCE(commission_pct,0))) AS 'Gaji Tahunan' FROM employees;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

1 > >> | ☐ Show all | Number of rows: 25 Filter rows: Search this table

+ Options
Gaji Tahunan

24000.00
17000.00
17000.00
9000.00
6000.00
4800.00
4800.00
4200.00
12000.00
9000.00
8200.00
7700.00
7800.00
6900.00
11000.00
3100.00
2900.00
2800.00
2600.00
2500.00
8000.00
8200.00
7900.00
6500.00
5800.00

1 > >> | ☐ Show all | Number of rows: 25 Filter rows: Search this table

3. Buat query untuk menampilkan nama pegawai, pekerjaan, nomer department, dan nama department untuk semua pegawai yang bekerja di kota 'Southlake'

```
SELECT CONCAT(e.first_name, " ", e.last_name) AS NAME, j.job_title, e.department_id,
d.department_name, l.city
FROM employees e JOIN departments d ON e.department_id = d.department_id
JOIN jobs j ON e.job_id = j.job_id
JOIN locations l ON l.location_id = d.location_id
WHERE l.city = "southlake";
```

locations l ON l.location_id = d.location_id WHERE l.city = "southlake";

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table

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NAME	job_title	department_id	department_name	city
Alexander Hunold	Programmer	60	IT	Southlake
Bruce Ernst	Programmer	60	IT	Southlake
David Austin	Programmer	60	IT	Southlake
Valli Pataballa	Programmer	60	IT	Southlake
Diana Lorentz	Programmer	60	IT	Southlake

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table

Query results operations

4. Buat query untuk menampilkan nama pegawai dan nomer pegawai, nama manager dan nomer pegawai dari manager.

```
SELECT  
  
CONCAT(a.FIRST_NAME," ",a.LAST_NAME)AS Nama_Pegawai,  
a.EMPLOYEE_ID AS Nomer_Pegawai,  
  
CONCAT(b.FIRST_NAME," ",b.LAST_NAME)AS Nama_Manager,  
b.EMPLOYEE_ID AS Nomer_Manager  
  
FROM employees a JOIN employees b  
ON a.MANAGER_ID=b.EMPLOYEE_ID;
```

1	>	>>	<input type="checkbox"/> Show all	Number of rows: 25	Filter rows: Search this table
+ Options					
Nama_Pegawai	Nomer_Pegawai	Nama_Manager	Nomer_Manager		
Neena Kochhar	101	Steven King	100		
Lex De Haan	102	Steven King	100		
Alexander Hunold	103	Lex De Haan	102		
Bruce Ernst	104	Alexander Hunold	103		
David Austin	105	Alexander Hunold	103		
Valli Pataballa	106	Alexander Hunold	103		
Diana Lorentz	107	Alexander Hunold	103		
Nancy Greenberg	108	Neena Kochhar	101		
Daniel Faviet	109	Nancy Greenberg	108		
John Chen	110	Nancy Greenberg	108		
Ismael Sciarra	111	Nancy Greenberg	108		
Jose Manuel Urman	112	Nancy Greenberg	108		
Luis Popp	113	Nancy Greenberg	108		
Den Raphaely	114	Steven King	100		
Alexander Khoo	115	Den Raphaely	114		
Shelli Baida	116	Den Raphaely	114		
Sigal Tobias	117	Den Raphaely	114		
Guy Himuro	118	Den Raphaely	114		
Karen Colmenares	119	Den Raphaely	114		
Matthew Weiss	120	Steven King	100		
Adam Fripp	121	Steven King	100		
Payam Kaufling	122	Steven King	100		
Shanta Vollman	123	Steven King	100		
Kevin Mourgous	124	Steven King	100		
Julia Nayer	125	Matthew Weiss	120		

5. Buatlah query untuk menampilkan department_id, department_name dan city untuk semua department termasuk nama city yang tidak terdapat department di city tersebut.

```
SELECT
a.DEPARTMENT_ID,
a.DEPARTMENT_NAME,
b.CITY
FROM departments a RIGHT JOIN locations b
ON a.LOCATION_ID=b.LOCATION_ID
```

1 ▾	>	>>	<input type="checkbox"/> Show all	Number of rows: 25 ▾	Filter rows
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DEPARTMENT_ID	DEPARTMENT_NAME	CITY			
NULL	NULL	Roma			
NULL	NULL	Venice			
NULL	NULL	Tokyo			
NULL	NULL	Hiroshima			
60	IT	Southlake			
50	Shipping	South San Francisco			
NULL	NULL	South Brunswick			
10	Administration	Seattle			
30	Purchasing	Seattle			
90	Executive	Seattle			
100	Finance	Seattle			
110	Accounting	Seattle			
120	Treasury	Seattle			
130	Corporate Tax	Seattle			
140	Control And Credit	Seattle			
150	Shareholder Services	Seattle			
160	Benefits	Seattle			
170	Manufacturing	Seattle			
180	Construction	Seattle			
190	Contracting	Seattle			
200	Operations	Seattle			
210	IT Support	Seattle			
220	NOC	Seattle			
230	IT Helpdesk	Seattle			
240	Government Sales	Seattle			
1 ▾	>	>>	<input type="checkbox"/> Show all	Number of rows: 25 ▾	Filter rows

Gunakan database Chinook untuk nomor 6-10

6. Buat query untuk menampilkan artistid, name, dan album title untuk semua artist termasuk artist yang belum punya album sama sekali.

```
SELECT b.ArtistId , b.Name , a.Title
FROM album a JOIN artist b
ON b.ArtistId = a.ArtistId
ORDER BY b.ArtistId ASC ;
```

1

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☐ Show all

Number of rows:

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Filter rows:

Search this table

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ArtistId	Name	Title
1	AC/DC	For Those About To Rock We Salute You
1	AC/DC	Let There Be Rock
2	Accept	Balls to the Wall
2	Accept	Restless and Wild
3	Aerosmith	Big Ones
4	Alanis Morissette	Jagged Little Pill
5	Alice In Chains	Facelift
6	Antônio Carlos Jobim	Warner 25 Anos
6	Antônio Carlos Jobim	Chill: Brazil (Disc 2)
7	Apocalyptica	Plays Metallica By Four Cellos
8	Audioslave	Audioslave
8	Audioslave	Out Of Exile
8	Audioslave	Revelations
9	BackBeat	BackBeat Soundtrack
10	Billy Cobham	The Best Of Billy Cobham
11	Black Label Society	Alcohol Fueled Brewtality Live! [Disc 1]
11	Black Label Society	Alcohol Fueled Brewtality Live! [Disc 2]
12	Black Sabbath	Black Sabbath
12	Black Sabbath	Black Sabbath Vol. 4 (Remaster)
13	Body Count	Body Count
14	Bruce Dickinson	Chemical Wedding
15	Buddy Guy	The Best Of Buddy Guy - The Millenium Collection
16	Caetano Veloso	Prenda Minha
16	Caetano Veloso	Sozinho Remix Ao Vivo
17	Chico Buarque	Minha Historia

1

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Number of rows:

25

Filter rows:

Search this table

Console

7. Buat query untuk menampilkan track-track dari album Big Ones dari Aerosmith

```
SELECT a.TrackId , b.Title , a.Name , c.Name
FROM track a JOIN album b JOIN artist c
ON a.AlbumId= b.AlbumId
WHERE b.Title= "Big Ones" AND c.Name = "Aerosmith"
ORDER BY a.TrackId ASC
```

☐ Show all

Number of rows: 25

Filter rows:

+ Options

TrackId	Title	Name	Name
23	Big Ones	Walk On Water	Aerosmith
24	Big Ones	Love In An Elevator	Aerosmith
25	Big Ones	Rag Doll	Aerosmith
26	Big Ones	What It Takes	Aerosmith
27	Big Ones	Dude (Looks Like A Lady)	Aerosmith
28	Big Ones	Janie's Got A Gun	Aerosmith
29	Big Ones	Cryin'	Aerosmith
30	Big Ones	Amazing	Aerosmith
31	Big Ones	Blind Man	Aerosmith
32	Big Ones	Deuces Are Wild	Aerosmith
33	Big Ones	The Other Side	Aerosmith
34	Big Ones	Crazy	Aerosmith
35	Big Ones	Eat The Rich	Aerosmith
36	Big Ones	Angel	Aerosmith
37	Big Ones	Livin' On The Edge	Aerosmith

☐ Show all

Number of rows: 25

Filter rows:

8. Buat query untuk menampilkan pembelian customer bernama “Victor Stevens” untuk invoice ID nomor 201

```
SELECT  
CONCAT(a.FirstName," ",a.LastName)AS Nama ,  
b.InvoiceId , b.InvoiceDate , b.BillingAddress ,  
b.BillingCity , b.BillingState , b.BillingCountry ,  
b.BillingPostalCode , b.Total  
  
FROM customer a JOIN invoice b  
ON b.CustomerId = a.CustomerId  
  
WHERE a.FirstName = "Victor" AND a.LastName = "Stevens" AND b.InvoiceId = 201  
ORDER BY b.InvoiceId ASC
```

☐ Show all

Number of rows: 25

Filter rows:

+ Options

Nama	InvoiceId	InvoiceDate	BillingAddress	BillingCity	BillingState	BillingCountry	BillingPostalCode	Total
Victor Stevens	201	2011-05-29 00:00:00	319 N. Frances Street	Madison	WI	USA	53703	18.86

☐ Show all

Number of rows: 25

Filter rows:

9. Buatlah query untuk menampilkan nomor invoice, judul album, judul lagu, genre, dan tipe medianya dari artist 'Iron Maiden'

```
SELECT a.InvoiceId , b.Title AS Judul_Album , c.Name AS Judul_Lagu ,
d.Name AS Genre , e.Name AS Tipe_Media , f.Name AS Nama_Artis

FROM invoice a JOIN album b JOIN track c JOIN genre d JOIN mediatype e JOIN artist f
ON b.ArtistId = f.ArtistId AND
e.MediaTypeId = c.MediaTypeId AND
d.GenreId = c.GenreId AND
c.AlbumId = b.AlbumId
WHERE f.Name = "Iron Maiden"
ORDER BY a.InvoiceId ASC
```

1

>

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Number of rows:

25

Filter rows:

Search this table

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InvoiceId	Judul_Album	Judul_Lagu	Genre	Tipe_Media	Nama_Artis
1	A Real Dead One	The Number Of The Beast	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Remember Tomorrow	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Where Eagles Dare	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Running Free	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Run To The Hilss	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Hallowed Be Thy Name	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Be Quick Or Be Dead	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Can I Play With Madness	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Wasting Love	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Bring Your Daughter... To The Slaughter	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Heaven Can Wait	Metal	MPEG audio file	Iron Maiden
1	Brave New World	Ghost Of The Navigator	Rock	MPEG audio file	Iron Maiden
1	A Real Live One	The Clairvoyant	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Afraid To Shoot Strangers	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	The Trooper	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Tailgunner	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Prowler	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	2 Minutes To Midnight	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	The Evil That Men Do	Metal	MPEG audio file	Iron Maiden
1	Brave New World	The Wicker Man	Rock	MPEG audio file	Iron Maiden
1	A Real Dead One	Transylvania	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Sanctuary	Metal	MPEG audio file	Iron Maiden
1	A Real Dead One	Iron Maiden	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	From Here To Eternity	Metal	MPEG audio file	Iron Maiden
1	A Real Live One	Fear Of The Dark	Metal	MPEG audio file	Iron Maiden

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Number of rows:

25

Filter rows:

Search this table

10. Buatlah query untuk menampilkan artist-artist, judul lagu, genre, dan judul albumnya yang tergabung dalam playlist '90's music'

```
SELECT a.Name AS Nama_Artis , b.Name AS Judul_Lagu , c.Name AS Genre, d.Title AS
Judul_Album , e.Name AS Playlist

FROM artist a JOIN track b JOIN genre c JOIN album d JOIN playlist e

ON a.ArtistId = d.ArtistId AND

b.GenreId = c.GenreId AND

b.AlbumId = d.AlbumId

WHERE e.Name = "90's Music"

ORDER BY a.Name ASC
```

1	>	>>	Number of rows: 25	Filter rows: Search this table
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Nama_Artis	Judul_Lagu	Genre	Judul_Album	Playlist
Aaron Copland & London Symphony Orchestra	Fanfare for the Common Man	Classical	A Copland Celebration, Vol. I	90's Music
Aaron Goldberg	OAM's Blues	Jazz	Worlds	90's Music
AC/DC	Let There Be Rock	Rock	Let There Be Rock	90's Music
AC/DC	Evil Walks	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Dog Eat Dog	Rock	Let There Be Rock	90's Music
AC/DC	Whole Lotta Rosie	Rock	Let There Be Rock	90's Music
AC/DC	Snowballed	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Go Down	Rock	Let There Be Rock	90's Music
AC/DC	Hell Ain't A Bad Place To Be	Rock	Let There Be Rock	90's Music
AC/DC	Inject The Venom	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Spellbound	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Overdose	Rock	Let There Be Rock	90's Music
AC/DC	Let's Get It Up	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Night Of The Long Knives	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Problem Child	Rock	Let There Be Rock	90's Music
AC/DC	Put The Finger On You	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Breaking The Rules	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	Bad Boy Boogie	Rock	Let There Be Rock	90's Music
AC/DC	For Those About To Rock (We Salute You)	Rock	For Those About To Rock We Salute You	90's Music
AC/DC	C.O.D.	Rock	For Those About To Rock We Salute You	90's Music
Academy of St. Martin in the Fields & Sir Neville ...	Fantasia On Greensleeves	Classical	The World of Classical Favourites	90's Music
Academy of St. Martin in the Fields & Sir Neville ...	Solomon HWV 67: The Arrival of the Queen of Sheba	Classical	The World of Classical Favourites	90's Music
Academy of St. Martin in the Fields Chamber Ensemb...	"Eine Kleine Nachtmusik" Serenade In G, K. 525: I....	Classical	Sir Neville Marriner: A Celebration	90's Music
Academy of St. Martin in the Fields, John Birch, S...	Requiem, Op.48: 4. Pie Jesu	Classical	Fauré: Requiem, Ravel: Pavane & Others	90's Music
Academy of St. Martin in the Fields, Sir Neville M...	Suite No. 3 in D, BWV 1068: III. Gavotte I & II	Classical	Bach: Orchestral Suites Nos. 1 - 4	90's Music
Console	>	>>	Number of rows: 25	Filter rows: Search this table