

# Laporan Praktikum SQL Join

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1. Masuk pada database classicmodels

```
USE classicmodels;
```

2. Menggunakan JOIN statement

- a. Menampilkan data lengkap Customer dan payment amount yang amount-nya di atas 20000

```
SELECT customers.*, payments.amount
FROM customers JOIN payments
ON customers.customerNumber = payments.customerNumber WHERE
payments.amount > 20000;
```

Kode di atas pertama-tama menggabungkan tabel customers dan payments berdasarkan kolom customerNumber, lalu memfilter payment amount, kemudian statement SELECT memilih semua data di tabel customers dan kolom amount di tabel payments untuk dipanggil sebagai output.

Output:

customerNumber	customerName	city	state	postalCode	contactLastName	contactFirstName	phone	creditLimit	amount	addressLine1	addressLine2
112	Signal Gift Stores	Las Vegas	NV	83030	King	Jean	7025551838	71800.00	32641.98	8489 Strong St.	NULL
112	Signal Gift Stores	Las Vegas	NV	83030	King	Jean	7025551838	71800.00	33347.88	8489 Strong St.	NULL
114	Australian Collectors, Co.	Melbourne	Victoria	3004	Ferguson	Peter	03 9520 4555	117300.00	45864.03	636 St Kilda Road	Level 3
114	Australian Collectors, Co.	Melbourne	Victoria	3004	Ferguson	Peter	03 9520 4555	117300.00	82261.22	636 St Kilda Road	Level 3
114	Australian Collectors, Co.	Melbourne	Victoria	3004	Ferguson	Peter	03 9520 4555	117300.00	636 St Kilda Road	Level 3	Level 3
...											
489	Double Decker Gift Stores, Ltd	London	NULL	W1A 1DP	Smith	Thomas	(171) 555-7555	43300.00	22275.73	120 Hanover Sq.	NULL
495	Diecast Collectables	Boston	MA	51003	Franco	Valarie	6175553555	85100.00	59265.14	6251 Ingle Ln.	NULL
496	Kelly's Gift Shop	Auckland	NULL	NULL	Snowden	Tony	+64 9 5555500	110000.00	30253.75	Arenales 1938 3'A'	NULL
496	Kelly's Gift Shop	Auckland	NULL	NULL	Snowden	Tony	+64 9 5555500	110000.00	32077.44	Arenales 1938 3'A'	NULL
496	Kelly's Gift Shop	Auckland	NULL	NULL	Snowden	Tony	+64 9 5555500	110000.00	52166.00	Arenales 1938 3'A'	NULL

195 rows in set (0.001 sec)

- b. Menampilkan customerName, city, dan checkNumber dengan syarat amount di antara 20000 – 50000

```
SELECT customers.customerName, customers.city, payments.checkNumber
FROM customers JOIN payments
ON customers.customerNumber = payments.customerNumber
WHERE payments.amount BETWEEN 20000 AND 50000;
```

Kode di atas pertama-tama menggabungkan tabel customers dan payments berdasarkan kolom customerNumber, lalu memfilter payment amount antara

20000 hingga 50000, lalu statement SELECT memilih kolom customerName, city, dan checkNumber untuk dipanggil sebagai output.

Output:

customerName	city	checkNumber
Signal Gift Stores	Las Vegas	HQ55022
Signal Gift Stores	Las Vegas	ND748579
Australian Collectors, Co.	Melbourne	GG31455
Australian Collectors, Co.	Melbourne	NR27552
La Rochelle Gifts	Nantes	LN373447
...		
Motor Mint Distributors Inc.	Philadelphia	JB117768
Signal Collectibles Ltd.	Brisbane	AH612904
Double Decker Gift Stores, Ltd	London	OC773849
Kelly's Gift Shop	Auckland	EU531600
Kelly's Gift Shop	Auckland	MB342426
153 rows in set (0.001 sec)		

- c. Menampilkan seluruh nama employee dan customer\_name masing-masing yang ditangani

```
SELECT employees.firstName, employees.lastName, customers.customerName
FROM employees JOIN customers
ON employees.employeeNumber = customers.salesRepEmployeeNumber;
```

Kode di atas pertama-tama menggabungkan tabel employees dan customers berdasarkan employeeNumber, lalu statement SELECT memilih kolom firstName, lastName, dan customerName untuk dipanggil sebagai output.

Output:

firstName	lastName	customerName
Leslie	Jennings	Mini Gifts Distributors Ltd.
Leslie	Jennings	Mini Wheels Co.
Leslie	Jennings	Technics Stores Inc.
Leslie	Jennings	Corporate Gift Ideas Co.
Leslie	Jennings	The Sharp Gifts Warehouse

...

Martin	Gerard	Vida Sport, Ltd
Martin	Gerard	CAF Imports
Martin	Gerard	Precious Collectables
Martin	Gerard	Corrida Auto Replicas, Ltd
Martin	Gerard	Iberia Gift Imports, Corp.

100 rows in set (0.004 sec)

- d. Menampilkan data produk berupa productName, buyPrice, dan orderNumber dalam histori pemesanan customer

```
SELECT products.productName, products.buyPrice,
orderdetails.orderNumber
FROM products JOIN orderdetails
ON products.productCode = orderdetails.productCode;
```

Kode di atas pertama-tama menggabungkan tabel products dan orderdetails berdasarkan productCode, lalu statement SELECT memilih kolom productName, buyPrice, dan orderNumber untuk dipanggil sebagai output.

Output:

productName	buyPrice	orderNumber
1969 Harley Davidson Ultimate Chopper	48.81	10107
1969 Harley Davidson Ultimate Chopper	48.81	10121
1969 Harley Davidson Ultimate Chopper	48.81	10134
1969 Harley Davidson Ultimate Chopper	48.81	10145
1969 Harley Davidson Ultimate Chopper	48.81	10159
...		
Pont Yacht	33.30	10360
Pont Yacht	33.30	10373
Pont Yacht	33.30	10386
Pont Yacht	33.30	10397
Pont Yacht	33.30	10414

2996 rows in set (0.015 sec)

- e. Menampilkan nama employee yang belum menangani customer satu pun

```
SELECT employees.firstName, employees.lastName
FROM employees LEFT JOIN customers
ON employees.employeeNumber = customers.salesRepEmployeeNumber
WHERE customers.customerNumber IS NULL;
```

Kode di atas pertama-tama menggabungkan tabel employees dan customers dengan LEFT JOIN berdasarkan kolom employeeNumber, lalu difilter dengan

mengambil data yang nilai di kolom customerNumber-nya adalah NULL, kemudian statement SELECT memilih kolom nama untuk dipanggil sebagai output.

Output:

firstName	lastName
Diane	Murphy
Mary	Patterson
Jeff	Firrelli
William	Patterson
Gerard	Bondur
Anthony	Bow
Tom	King
Yoshimi	Kato

8 rows in set (0.002 sec)

- f. Menampilkan nama customer beserta nama product yang dipesan

```
SELECT customers.customerName, products.productName
FROM customers
JOIN orders ON customers.customerNumber = orders.customerNumber
JOIN orderdetails ON orders.orderNumber = orderdetails.orderNumber
JOIN products ON orderdetails.productCode = products.productCode;
```

Kode di atas menggabungkan empat tabel dengan statement JOIN, lalu dipilih kolom customerName dan productName untuk ditampilkan sebagai output.

Output:

customerName	productName
Atelier graphique	1965 Aston Martin DB5
Atelier graphique	1999 Indy 500 Monte Carlo SS
Atelier graphique	1948 Porsche Type 356 Roadster
Atelier graphique	1966 Shelby Cobra 427 S/C
Atelier graphique	1996 Moto Guzzi 1100i
...	
Kelly's Gift Shop	2002 Suzuki XREO
Kelly's Gift Shop	1936 Harley Davidson El Knucklehead
Kelly's Gift Shop	1997 BMW R 1100 S
Kelly's Gift Shop	1960 BSA Gold Star DBD34
Kelly's Gift Shop	1997 BMW F650 ST

2996 rows in set (0.007 sec)

- g. Menampilkan seluruh data order ditambah dengan data nama customer yang melakukan order tersebut

```
SELECT orders.*, customers.customerName
FROM orders JOIN customers
ON orders.customerNumber = customers.customerNumber;
```

Kode di atas pertama-tama menggabungkan tabel orders dan customers berdasarkan kolom customerNumber, kemudian statement SELECT memilih semua data di tabel orders dan kolom customerName di tabel customers untuk dipanggil sebagai output.

Output:

orderNumber	orderDate	requiredDate	shippedDate	status	comments	customerNumber	customerName
18123	2003-05-20	2003-05-29	2003-05-22	Shipped	NULL		
10298	2004-09-27	2004-10-05	2004-10-01	Shipped	NULL	103	Atelier graphique
10345	2004-11-25	2004-12-01	2004-11-26	Shipped	NULL	103	Atelier graphique
10124	2003-05-21	2003-05-29	2003-05-25	Shipped	Customer very concerned about the exact color of the models. There is high risk that he may dispute the order because there is a slight color mismatch	103	Atelier graphique
10278	2004-08-06	2004-08-16	2004-08-09	Shipped	NULL	112	Signal Gift Stores
						112	Signal Gift Stores

■ ■ ■

10243	2004-04-26	2004-05-03	2004-04-28	Shipped	NULL		495	Diecast Collectables	
10138	2003-07-07	2003-07-16	2003-07-13	Shipped	NULL		496	Kelly's Gift Shop	
10179	2003-11-11	2003-11-17	2003-11-13	Cancelled	Customer cancelled due to urgent budgeting issues. Must be cautious when dealing with them in the future. Since order shipped already we must discuss who would cover the shipping charges.		496	Kelly's Gift Shop	
10360	2004-12-16	2004-12-22	2004-12-18	Shipped	NULL		496	Kelly's Gift Shop	
10399	2005-04-01	2005-04-12	2005-04-03	Shipped	NULL		496	Kelly's Gift Shop	

326 rows in set (0.006 sec)

- h. Menampilkan seluruh data employee ditambah dengan data nama customer yang telah ditangani

```
SELECT employees.*, customers.customerName
FROM employees JOIN customers
ON employees.employeeNumber = customers.salesRepEmployeeNumber;
```

Kode di atas pertama-tama menggabungkan tabel employees dan customers berdasarkan kolom employeeNumber, kemudian statement SELECT memilih seluruh data di tabel employees dan kolom customerName di tabel customers untuk dipanggil sebagai output.

Output:

employeeNumber	lastName	firstName	extension	email	officeCode	reportsTo	jobTitle	customerName
1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1143	Sales Rep	Mini Gifts Distributors Ltd.
1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1143	Sales Rep	Mini Wheels Co.
1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1143	Sales Rep	Technics Stores Inc.
1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1143	Sales Rep	Corporate Gift Ideas Co.
1165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1143	Sales Rep	The Sharp Gifts Warehouse

• • •

1702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1102	Sales Rep	Vida Sport, Ltd
1702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1102	Sales Rep	CAF Imports
1702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1102	Sales Rep	Precious Collectables
1702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1102	Sales Rep	Corrida Auto Replicas, Ltd
1702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1102	Sales Rep	Iberia Gift Imports, Corp.

100 rows in set (0.001 sec)

- i. Menampilkan seluruh data products ditambah dengan data order yang cocok dengan productCode yang ada

```
SELECT products.*, orderdetails.orderNumber
FROM products JOIN orderdetails
ON products.productCode = orderdetails.productCode;
```

Kode di atas pertama-tama menggabungkan tabel products dan orderdetails berdasarkan kolom productCode, kemudian statement SELECT memilih seluruh data di tabel products dengan nilai orderNumber di tabel orderdetails untuk dipanggil sebagai output.

Output:

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| productCode | productName                               | productLine | productScale | productVendor | productDescription                               | quantityInStock | buyPrice | MSRP | orderNumber |
+-----+-----+-----+-----+-----+-----+-----+-----+
| S10_1678    | 1969 Harley Davidson Ultimate Chopper    | Motorcycles | 1:10         | Min Lin Diecast | This replica features working kickstand, front suspension, gear-shift lever, footbrake lever, drive chain, wheels and steering. All parts are particularly delicate due to their precise scale and require special care and attention. | 7933 | 48.81 | 95.70 | 10107 |
| S10_1678    | 1969 Harley Davidson Ultimate Chopper    | Motorcycles | 1:10         | Min Lin Diecast | This replica features working kickstand, front suspension, gear-shift lever, footbrake lever, drive chain, wheels and steering. All parts are particularly delicate due to their precise scale and require special care and attention. | 7933 | 48.81 | 95.70 | 10121 |
| S10_1678    | 1969 Harley Davidson Ultimate Chopper    | Motorcycles | 1:10         | Min Lin Diecast | This replica features working kickstand, front suspension, gear-shift lever, footbrake lever, drive chain, wheels and steering. All parts are particularly delicate due to their precise scale and require special care and attention. | 7933 | 48.81 | 95.70 | 10134 |
| S10_1678    | 1969 Harley Davidson Ultimate Chopper    | Motorcycles | 1:10         | Min Lin Diecast | This replica features working kickstand, front suspension, gear-shift lever, footbrake lever, drive chain, wheels and steering. All parts are particularly delicate due to their precise scale and require special care and attention. | 7933 | 48.81 | 95.70 | 10145 |
| S10_1678    | 1969 Harley Davidson Ultimate Chopper    | Motorcycles | 1:10         | Min Lin Diecast | This replica features working kickstand, front suspension, gear-shift lever, footbrake lever, drive chain, wheels and steering. All parts are particularly delicate due to their precise scale and require special care and attention. | 7933 | 48.81 | 95.70 | 10159 |
...
| S72_3212    | Pont Yacht                               | Ships       | 1:72         | Unimax Art Galleries | Measures 38 inches Long x 33 3/4 inches High. Includes a stand. Many extras including rigging, long boats, pilot house, anchors, etc. Comes with 2 masts, all square-rigged | 414 | 33.30 | 54.60 | 10360 |
| S72_3212    | Pont Yacht                               | Ships       | 1:72         | Unimax Art Galleries | Measures 38 inches Long x 33 3/4 inches High. Includes a stand. Many extras including rigging, long boats, pilot house, anchors, etc. Comes with 2 masts, all square-rigged | 414 | 33.30 | 54.60 | 10373 |
| S72_3212    | Pont Yacht                               | Ships       | 1:72         | Unimax Art Galleries | Measures 38 inches Long x 33 3/4 inches High. Includes a stand. Many extras including rigging, long boats, pilot house, anchors, etc. Comes with 2 masts, all square-rigged | 414 | 33.30 | 54.60 | 10386 |
| S72_3212    | Pont Yacht                               | Ships       | 1:72         | Unimax Art Galleries | Measures 38 inches Long x 33 3/4 inches High. Includes a stand. Many extras including rigging, long boats, pilot house, anchors, etc. Comes with 2 masts, all square-rigged | 414 | 33.30 | 54.60 | 10397 |
| S72_3212    | Pont Yacht                               | Ships       | 1:72         | Unimax Art Galleries | Measures 38 inches Long x 33 3/4 inches High. Includes a stand. Many extras including rigging, long boats, pilot house, anchors, etc. Comes with 2 masts, all square-rigged | 414 | 33.30 | 54.60 | 10414 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2996 rows in set (0.012 sec)
```

- j. Menampilkan seluruh data orders dan orderdetails

```
SELECT orders.*, orderdetails.*
FROM orders JOIN orderdetails
ON orders.orderNumber = orderdetails.orderNumber;
```

Output:

[illegible]