

65070503428 Pitchayapat Wareevanich

6.1

The screenshot shows two windows side-by-side. On the left is the MySQL command-line interface (bin - mysql -u root -p - 11358) displaying SQL queries and their results. On the right is the Oracle Live SQL worksheet (https://app.eb2.or...), which also displays the same SQL queries and their results.

```

MariaDB [dreamhome]> UNLOCK TABLES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [dreamhome]> DROP TABLE IF EXISTS `viewing`;
Query OK, 0 rows affected, 1 warning (0.002 sec)

MariaDB [dreamhome]> CREATE TABLE `viewing` (
    >     ID int(11) DEFAULT NULL,
    >     Client int(11) DEFAULT NULL,
    >     'property' varchar(10) DEFAULT NULL,
    >     viewDate datetime DEFAULT NULL,
    >     viewHour tinyint(4) DEFAULT NULL,
    >     Comment varchar(255) DEFAULT NULL,
    >     WishOffer bit(1) DEFAULT NULL,
    >     ENGINE=InnoDB DEFAULT CHARSET=utf8;
Query OK, 0 rows affected (0.012 sec)

MariaDB [dreamhome]> LOCK TABLES `viewing` WRITE;
Query OK, 0 rows affected (0.003 sec)

MariaDB [dreamhome]> INSERT INTO `viewing` VALUES (2,2,'PA14','2004-07-01 00:00:00',11,NULL,'0'),(3,7,'PG36','2004-07-01 00:00:00',12,NULL,'0'),(4,9,'PG4','2004-07-01 00:00:00',12,'Tidy but too small','0'),(5,10,'PA14','2004-07-01 00:00:00',13,NULL,'0'),(6,11,'PG21','2004-07-01 00:00:00',13,NULL,'0'),(7,6,'PA14','2004-06-28 00:00:00',12,NULL,'0'),(8,5,'PG21','2004-06-21 00:00:00',13,NULL,'0'),(9,11,'PA14','2004-06-20 00:00:00',12,NULL,'0'),(10,9,'PG21','2004-11-22 00:00:00',9,'Not bad at all','0'),(11,6,'PA14','2004-11-23 00:00:00',9,'Kitchen too smal','0'),(12,9,'PG21','2004-11-23 00:00:00',9,NULL,'0'),(13,9,'PG36','2004-11-23 00:00:00',9,'Kitchen too smal','0'),(14,9,'PG16','2004-11-23 00:00:00',9,NULL,'0'),(15,24,'PG21','2004-11-25 00:00:00',11,NULL,'0');
Query OK, 12 rows affected (0.002 sec)
Records: 12 Duplicates: 0 Warnings: 0

MariaDB [dreamhome]> UNLOCK TABLES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [dreamhome]> SELECT *
    >   FROM Staff;
+-----+-----+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | sex | DOB      | salary | branchNo | telephone | mobile |
+-----+-----+-----+-----+-----+-----+-----+
| SA9    | Mary   | Howe   | Assistant | F  | 1970-02-19 00:00:00 | 9800  | B007    |          |           |
| SG14   | David  | Ford   | Supervisor | M  | 1958-03-24 00:00:00 | 18000 | B003   |          |           |
| SG37   | Ann    | Beech  | Assistant | F  | 1960-11-10 00:00:00 | 12800 | B003   |          |           |
| SG5    | Susan   | Brand  | Manager   | F  | 1948-06-03 00:00:00 | 24000 | B003   |          |           |
| SL21   | John   | White  | Manager   | M  | 1945-10-01 00:00:00 | 30000  | B005   |          |           |
| SL41   | Julie  | Lee    | Assistant | F  | 1965-06-13 00:00:00 | 9800  | B005   |          |           |
| SL21   | Julie  | Lee    | Assistant | F  | 1965-06-13 00:00:00 | 9800  | B005   |          |           |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> []

```

SQL Worksheet

```

1 v SELECT * 
2 FROM Staff;

```

STAFFNO	FNAME	LNAME	POSITION	SEX	DOB	SALARY	BRANCHNO
SA9	Mary	Howe	Assistant	F	19-FEB-70 12.00.00.000000 PM	9000	B007
SG14	David	Ford	Supervisor	M	24-MAR-58 12.00.00.000000 PM	18000	B003
SG37	Ann	Beech	Assistant	F	10-NOV-60 12.00.00.000000 PM	12000	B003

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6.2

The screenshot shows two windows side-by-side. On the left is the MySQL command-line interface (bin - mysql -u root -p - 11358) displaying SQL queries and their results. On the right is the Oracle Live SQL worksheet (https://app.eb2.or...), which also displays the same SQL queries and their results.

```

MariaDB [dreamhome]> 'WishToRent' bit(1) DEFAULT NULL;
-> ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
Query OK, 0 rows affected (0.003 sec)

MariaDB [dreamhome]> LOCK TABLES `viewing` WRITE;
Query OK, 0 rows affected (0.003 sec)

MariaDB [dreamhome]> INSERT INTO `viewing` VALUES (2,2,'PA14','2004-07-01 00:00:00',11,NULL,'0'),(3,7,'PG36','2004-07-01 00:00:00',12,NULL,'0'),(4,9,'PG4','2004-07-01 00:00:00',12,'Tidy but too small','0'),(5,10,'PA14','2004-07-02 00:00:00',13,NULL,'0'),(6,11,'PG21','2004-07-02 00:00:00',13,NULL,'0'),(7,6,'PA14','2004-06-28 00:00:00',12,NULL,'0'),(8,5,'PG21','2004-06-21 00:00:00',13,NULL,'0'),(9,11,'PA14','2004-06-20 00:00:00',12,NULL,'0'),(10,9,'PG21','2004-11-22 00:00:00',9,'Not bad at all','0'),(11,6,'PA14','2004-11-23 00:00:00',9,'Kitchen too smal','0'),(12,9,'PG21','2004-11-23 00:00:00',9,NULL,'0'),(13,9,'PG36','2004-11-23 00:00:00',9,'Kitchen too smal','0'),(14,9,'PG16','2004-11-23 00:00:00',9,NULL,'0'),(15,24,'PG21','2004-11-25 00:00:00',11,NULL,'0');
Query OK, 12 rows affected (0.002 sec)
Records: 12 Duplicates: 0 Warnings: 0

MariaDB [dreamhome]> UNLOCK TABLES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [dreamhome]> SELECT *
    >   FROM Staff;
+-----+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | sex | DOB      | salary | branchNo | telephone | mobile |
+-----+-----+-----+-----+-----+-----+
| SA9    | Mary   | Howe   | Assistant | F  | 1970-02-19 00:00:00 | 9800  | B007    |          |           |
| SG14   | David  | Ford   | Supervisor | M  | 1958-03-24 00:00:00 | 18000 | B003   |          |           |
| SG37   | Ann    | Beech  | Assistant | F  | 1960-11-10 00:00:00 | 12800 | B003   |          |           |
| SG5    | Susan   | Brand  | Manager   | F  | 1948-06-03 00:00:00 | 24000 | B003   |          |           |
| SL21   | John   | White  | Manager   | M  | 1945-10-01 00:00:00 | 30000  | B005   |          |           |
| SL41   | Julie  | Lee    | Assistant | F  | 1965-06-13 00:00:00 | 9800  | B005   |          |           |
| SL21   | Julie  | Lee    | Assistant | F  | 1965-06-13 00:00:00 | 9800  | B005   |          |           |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
    >   FROM Staff;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+-----+
| SA9    | Mary   | Howe   | 9800  |
| SG14   | David  | Ford   | 18000 |
| SG37   | Ann    | Beech  | 12800 |
| SG5    | Susan   | Brand  | 24000 |
| SL21   | John   | White  | 30000 |
| SL41   | Julie  | Lee    | 9800  |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> []

```

SQL Worksheet

```

1 v SELECT staffNo, fName, lName, salary
2 FROM Staff;

```

STAFFNO	FNAME	LNAME	SALARY
SA9	Mary	Howe	9000
SG14	David	Ford	18000
SG37	Ann	Beech	12000
SG5	Susan	Brand	24000
SL21	John	White	30000

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6.3

bin - mysql -u root -p - 113x58

```

--> FROM Staff;
+-----+-----+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | sex | DOB           | salary |
+-----+-----+-----+-----+-----+-----+-----+
| SA9    | Mary   | Howe  | Assistant | F  | 1978-02-19 00:00:00 | 9000   |
| SG14   | David  | Ford  | Supervisor | M  | 1958-03-24 00:00:00 | 18000  |
| SG37   | Ann    | Beech | Assistant | F  | 1968-11-10 00:00:00 | 12000  |
| SG5    | Susan  | Brand | Manager  | F  | 1948-06-03 00:00:00 | 24000  |
| SL21   | John   | White | Manager  | M  | 1945-10-01 00:00:00 | 30000  |
| SL41   | Julie  | Lee   | Assistant | F  | 1965-06-13 00:00:00 | 9000   |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
--> FROM Staff;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+
| SA9    | Mary   | Howe  | 9000   |
| SG14   | David  | Ford  | 18000  |
| SG37   | Ann    | Beech | 12000  |
| SG5    | Susan  | Brand | 24000  |
| SL21   | John   | White | 30000  |
| SL41   | Julie  | Lee   | 9000   |
+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT propertyNo
--> FROM Viewing;
+-----+
| propertyNo |
+-----+
| PA14      |
| PG36      |
| PG4       |
| PA14      |
| PG4       |
| PA14      |
| PG21      |
| PG16      |
| PG21      |
+-----+
12 rows in set (0.003 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

1 v SELECT propertyNo
2 FROM Viewing;

PROPERTYNO

- PA14
- PG36
- PG4
- PA14
- PG4
- PA14
- PG21
- PG16
- PG21

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6.4

bin - mysql -u root -p - 113x58

```

7 | SusanBrand@Dreamhome.co.uk |
| SL21 | John | White | Manager | M | 1945-10-01 00:00:00 | 30000 | 8005 | 1512 | 090555 1234
| SL41 | Julie | Lee | Assistant | F | 1965-06-13 00:00:00 | 9000 | 8005 | 1514 | 090555 1234
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
--> FROM Staff;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+
| SA9    | Mary   | Howe  | 9000   |
| SG14   | David  | Ford  | 18000  |
| SG37   | Ann    | Beech | 12000  |
| SG5    | Susan  | Brand | 24000  |
| SL21   | John   | White | 30000  |
| SL41   | Julie  | Lee   | 9000   |
+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT propertyNo
--> FROM Viewing;
+-----+
| propertyNo |
+-----+
| PA14      |
| PG36      |
| PG4       |
| PA14      |
| PG4       |
| PA14      |
| PG21      |
| PG16      |
| PG21      |
+-----+
12 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary/12
--> FROM Staff;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary/12 |
+-----+-----+-----+
| SA9    | Mary   | Howe  | 750.0000 |
| SG14   | David  | Ford  | 1500.0000 |
| SG37   | Ann    | Beech | 1000.0000 |
| SG5    | Susan  | Brand | 2000.0000 |
| SL21   | John   | White | 2500.0000 |
| SL41   | Julie  | Lee   | 750.0000 |
+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

1 v SELECT staffNo, fName, lName, salary/12
2 FROM Staff;

STAFFNO	FNAME	LNAME	SALARY/12
SA9	Mary	Howe	750
SG14	David	Ford	1500
SG37	Ann	Beech	1000
SG5	Susan	Brand	2000
SL21	John	White	2500

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6.5

bin - mysql -u root -p -113x58

```

| propertyNo |
+-----+
| PA14 |
| PG36 |
| PG4 |
| PA14 |
| PA14 |
| PA14 |
| PG21 |
| PG20 |
| PG16 |
| PG21 |
+-----+
12 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT propertyNo
-> FROM Viewing;
+-----+
| propertyNo |
+-----+
| PA14 |
| PG36 |
| PG4 |
| PA14 |
| PA14 |
| PA14 |
| PG21 |
| PG20 |
| PG16 |
| PG21 |
+-----+
12 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary/12
-> FROM Staff;
+-----+
| staffNo | fName | lName | salary/12 |
+-----+
| SA9 | Mary | Howe | 750.0000 |
| SG14 | David | Ford | 1500.0000 |
| SG37 | Ann | Beech | 1000.0000 |
| SG5 | Susan | Brand | 2000.0000 |
| SL21 | John | White | 3000.0000 |
| SL41 | Julie | Lee | 750.0000 |
+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > 10000;
+-----+
| staffNo | fName | lName | position | salary |
+-----+
| SG14 | David | Ford | Supervisor | 18000 |
| SG37 | Ann | Beech | Assistant | 12000 |
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |
+-----+
4 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

SQL Worksheet https://app.leb2.or... Start Page Untitled

Live SQL Feedback Help pitchayapat.waree@gmail.com

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT staffNo, fName, lName, position, salary
2 FROM Staff
3 WHERE salary > 10000;

```

STAFFNO	FNAME	LNAME	POSITION	SALARY
SG14	David	Ford	Supervisor	18000
SG37	Ann	Beech	Assistant	12000
SG5	Susan	Brand	Manager	24000
SL21	John	White	Manager	30000

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6.6

bin - mysql -u root -p -113x58

```

| propertyNo |
+-----+
| PA14 |
| PG36 |
| PG4 |
| PA14 |
| PA14 |
| PA14 |
| PG21 |
| PG20 |
| PG16 |
| PG21 |
+-----+
12 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary/12
-> FROM Staff;
+-----+
| staffNo | fName | lName | salary/12 |
+-----+
| SA9 | Mary | Howe | 750.0000 |
| SG14 | David | Ford | 1500.0000 |
| SG37 | Ann | Beech | 1000.0000 |
| SG5 | Susan | Brand | 2000.0000 |
| SL21 | John | White | 3000.0000 |
| SL41 | Julie | Lee | 750.0000 |
+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > 10000;
+-----+
| staffNo | fName | lName | position | salary |
+-----+
| SG14 | David | Ford | Supervisor | 18000 |
| SG37 | Ann | Beech | Assistant | 12000 |
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |
+-----+
4 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT *
-> FROM Branch
-> WHERE city = 'London' OR city = 'Glasgow';
+-----+
| branchNo | street | city | postcode |
+-----+
| B002 | 56 Cover Drive | London | NW10 6EU |
| B003 | 163 Main Street | Glasgow | G11 9QX |
| B005 | 22 Deer Road | London | SW1 4EH |
+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]> 
```

SQL Worksheet https://app.leb2.or... Start Page Untitled

Live SQL Feedback Help pitchayapat.waree@gmail.com

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT *
2 FROM Branch
3 WHERE city = 'London' OR city = 'Glasgow';

```

BRANCHNO	STREET	CITY	POSTCODE
B002	56 Cover Drive	London	NW10 6EU
B003	163 Main Street	Glasgow	G11 9QX
B005	22 Deer Road	London	SW1 4EH

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6.7

bin — mysql -u root -p -113x58

```

| PG21 |
| PG36 |
| PG16 |
| PG21 |
12 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary/12
-> FROM Staff;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary/12 |
+-----+-----+-----+-----+
| S019 | Mary | Howe | 750.0000 |
| SG14 | David | Ford | 1500.0000 |
| SG37 | Ann | Beech | 1800.0000 |
| SG5 | Susan | Brand | 2400.0000 |
| SL21 | John | White | 2500.0000 |
| SL41 | Julie | Lee | 750.0000 |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > 10000;
+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | salary |
+-----+-----+-----+-----+-----+
| SG14 | David | Ford | Supervisor | 18000 |
| SG37 | Ann | Beech | Assistant | 12000 |
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |
+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT *
-> FROM Branch
-> WHERE city = 'London' OR city = 'Glasgow';
+-----+-----+-----+-----+
| branchNo | street | city | postcode |
+-----+-----+-----+-----+
| B002 | 56 Cover Drive | London | NW10 0EU |
| B003 | 163 Main Street | Glasgow | G11 9QX |
| B005 | 22 Deer Road | London | SW1 4EH |
+-----+-----+-----+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary BETWEEN 20000 AND 30000;
+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | salary |
+-----+-----+-----+-----+-----+
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |
+-----+-----+-----+-----+-----+
2 rows in set (0.003 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Actions Run

```

1 v SELECT staffNo, fName, lName, position, salary
2 FROM Staff
3 WHERE salary BETWEEN 20000 AND 30000;
```

STAFFNO	FNAME	LNAME	POSITION	SALARY
SG5	Susan	Brand	Manager	24000
SL21	John	White	Manager	30000

Download CSV

2 rows selected.

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6.8

bin — mysql -u root -p -113x58

```

| S019 | Mary | Howe | 750.0000 |
| SG14 | David | Ford | 1500.0000 |
| SG37 | Ann | Beech | 1800.0000 |
| SG5 | Susan | Brand | 24000.0000 |
| SL21 | John | White | 2500.0000 |
| SL41 | Julie | Lee | 750.0000 |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > 10000;
+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | salary |
+-----+-----+-----+-----+-----+
| SG14 | David | Ford | Supervisor | 18000 |
| SG37 | Ann | Beech | Assistant | 12000 |
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |
+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT *
-> FROM Branch
-> WHERE city = 'London' OR city = 'Glasgow';
+-----+-----+-----+-----+
| branchNo | street | city | postcode |
+-----+-----+-----+-----+
| B002 | 56 Cover Drive | London | NW10 0EU |
| B003 | 163 Main Street | Glasgow | G11 9QX |
| B005 | 22 Deer Road | London | SW1 4EH |
+-----+-----+-----+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary BETWEEN 20000 AND 30000;
+-----+-----+-----+-----+-----+
| staffNo | fName | lName | position | salary |
+-----+-----+-----+-----+-----+
| SG5 | Susan | Brand | Manager | 24000 |
| SL21 | John | White | Manager | 30000 |
+-----+-----+-----+-----+-----+
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff
-> WHERE position IN ('Manager', 'Supervisor');
+-----+-----+-----+-----+
| staffNo | fName | lName | position |
+-----+-----+-----+-----+
| SG14 | David | Ford | Supervisor |
| SG5 | Susan | Brand | Manager |
| SL21 | John | White | Manager |
+-----+-----+-----+-----+
3 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Actions Run

```

1 v SELECT staffNo, fName, lName, position
2 FROM Staff
3 WHERE position IN ('Manager', 'Supervisor');
```

STAFFNO	FNAME	LNAME	POSITION
SG14	David	Ford	Supervisor
SG5	Susan	Brand	Manager
SL21	John	White	Manager

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6.9

The screenshot shows two side-by-side interfaces. On the left is the MySQL command-line interface (bin - mysql -u root -p - 113x58) displaying several SELECT queries against the Staff and Branch tables. On the right is the Oracle Live SQL worksheet (https://app.eb2.oracle.com) showing a single query:

```
1 v SELECT branchNo, city
2 FROM branch
3 WHERE city LIKE '%Glasgow%';
```

The Oracle worksheet also displays the results of the query, which is identical to the MySQL results.

6.10

The screenshot shows two side-by-side interfaces. On the left is the MySQL command-line interface (bin - mysql -u root -p - 113x58) displaying several SELECT queries against the Staff and Branch tables. On the right is the Oracle Live SQL worksheet (https://app.eb2.oracle.com) showing a single query:

```
1 v SELECT clientID, viewDate
2 FROM Viewing
3 WHERE propertyNO = 'PG4' AND
4 comments IS NULL;
```

The Oracle worksheet also displays the results of the query, which is identical to the MySQL results. The results are shown in a table:

CLIENTID	VIEWDATE
12	02-JUL-04 12.00.00.000000 PM

Below the table is a "Download CSV" button.

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6.11

bin - mysql -u root -p -113x58

```

| SL21 | John | White | Manager | 30000 |
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff
-> WHERE position IN ('Manager', 'Supervisor');
+-----+-----+-----+-----+
| staffNo | fName | lName | position |
+-----+-----+-----+-----+
| SG14 | David | Ford | Supervisor |
| SG5 | Susan | Brand | Manager |
| SL21 | John | White | Manager |
+-----+-----+-----+-----+
3 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT branchNo, city
-> FROM branch
-> WHERE city LIKE '%Glasgow%';
+-----+-----+
| branchNo | city |
+-----+-----+
| B003 | Glasgow |
+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT clientID, viewDate
-> FROM Viewing
-> WHERE propertyNo = 'PG4' AND
-> comment IS NULL;
ERROR 1064 (42S22): Unknown column 'comments' in 'where clause'
MariaDB [dreamhome]> SELECT clientID, viewDate
-> FROM Viewing
-> WHERE propertyNo = 'PG4' AND
-> comment IS NULL;
+-----+-----+
| clientID | viewDate |
+-----+-----+
| 12 | 2004-07-02 00:00:00 |
+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
-> FROM Staff
-> ORDER BY salary DESC;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+-----+
| SL21 | John | White | 30000 |
| SG5 | Susan | Brand | 24000 |
| SG14 | David | Ford | 18000 |
| SG37 | Ann | Beech | 12000 |
| SA9 | Mary | Howe | 9000 |
| SL41 | Julie | Lee | 9000 |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT staffNo, fName, lName, salary
2 FROM Staff
3 ORDER BY salary DESC;
```

STAFFNO	FNAME	LNAME	SALARY
SL21	John	White	30000
SG5	Susan	Brand	24000
SG14	David	Ford	18000
SG37	Ann	Beech	12000
SA9	Mary	Howe	9000
SL41	Julie	Lee	9000

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6.12

bin - mysql -u root -p -113x58

```

MariaDB [dreamhome]> SELECT branchNo, city
-> FROM branch
-> WHERE city LIKE '%Glasgow%';
+-----+-----+
| branchNo | city |
+-----+-----+
| B003 | Glasgow |
+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT clientID, viewDate
-> FROM Viewing
-> WHERE propertyNo = 'PG4' AND
-> comment IS NULL;
ERROR 1064 (42S22): Unknown column 'comments' in 'where clause'
MariaDB [dreamhome]> SELECT clientID, viewDate
-> FROM Viewing
-> WHERE propertyNo = 'PG4' AND
-> comment IS NULL;
+-----+-----+
| clientID | viewDate |
+-----+-----+
| 12 | 2004-07-02 00:00:00 |
+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
-> FROM Staff
-> ORDER BY salary DESC;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+-----+
| SL21 | John | White | 30000 |
| SG5 | Susan | Brand | 24000 |
| SG14 | David | Ford | 18000 |
| SG37 | Ann | Beech | 12000 |
| SA9 | Mary | Howe | 9000 |
| SL41 | Julie | Lee | 9000 |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT propertyNo, type, rooms, rent
-> FROM PropertyForRent
-> ORDER BY type;
+-----+-----+-----+-----+
| propertyNo | type | rooms | rent |
+-----+-----+-----+-----+
| PG14 | Flat | 4 | 450 |
| PG36 | Flat | 3 | 375 |
| PG4 | Flat | 3 | 350 |
| PL94 | Flat | 4 | 400 |
| PA14 | House | 6 | 650 |
| PG21 | House | 5 | 500 |
| PG97 | House | 3 | 300 |
+-----+-----+-----+-----+
7 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT propertyNo, type, rooms, rent
2 FROM PropertyForRent
3 ORDER BY type;
```

PROPERTYNO	TYPE	ROOMS	RENT
PG36	Flat	3	375
PG4	Flat	3	350
PL94	Flat	4	400
PG16	Flat	4	450
PG71	House	5	500

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6.13

bin - mysql -u root -p -113x58

```
MariaDB [dreamhome]> SELECT clientID, viewDate
-> FROM Viewing
-> WHERE propertyNo = 'PG4' AND
-> comment IS NULL;
ERROR 1054 (42S22): Unknown column 'comment' in 'where clause'
MariaDB [dreamhome]> SELECT clientID, viewDate
-> FROM Viewing
-> WHERE propertyNo = 'PG4' AND
-> comment IS NULL;
+-----+-----+
| clientID | viewDate |
+-----+-----+
|      12 | 2004-07-02 00:00:00 |
+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
-> FROM Staff
-> ORDER BY salary DESC;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+-----+
| SL21   | John  | White | 38000 |
| SG3    | Susan | Ford  | 24000 |
| SG14   | David | Ford  | 18000 |
| SG37   | Ann   | Beech | 12000 |
| SA9    | Mary  | Howe  | 9000  |
| SL41   | Julie | Lee   | 9000  |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT propertyNo, type, rooms, rent
-> FROM PropertyForRent
-> ORDER BY type;
+-----+-----+-----+-----+
| propertyNo | type | rooms | rent |
+-----+-----+-----+-----+
| PG16     | Flat  | 4    | 450  |
| PG26     | Flat  | 3    | 350  |
| PG4      | Flat  | 3    | 350  |
| PL94     | Flat  | 4    | 400  |
| PA14     | House | 6    | 650  |
| PG21     | House | 5    | 600  |
| PG97     | House | 3    | 380  |
+-----+-----+-----+-----+
7 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT COUNT(*) AS myCount
-> FROM PropertyForRent
-> WHERE rent > 350;
+-----+
| myCount |
+-----+
|       6 |
+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```
1 v SELECT COUNT(*) AS myCount
2 FROM PropertyForRent
3 WHERE rent > 350;
```

MYCOUNT

6

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6.14

bin - mysql -u root -p -113x58

```
+-----+-----+
|      12 | 2004-07-02 00:00:00 |
+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, salary
-> FROM Staff
-> ORDER BY salary DESC;
+-----+-----+-----+-----+
| staffNo | fName | lName | salary |
+-----+-----+-----+-----+
| SL21   | John  | White | 38000 |
| SG3    | Susan | Ford  | 24000 |
| SG14   | David | Ford  | 18000 |
| SG37   | Ann   | Beech | 12000 |
| SA9    | Mary  | Howe  | 9000  |
| SL41   | Julie | Lee   | 9000  |
+-----+-----+-----+-----+
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT propertyNo, type, rooms, rent
-> FROM PropertyForRent
-> ORDER BY type;
+-----+-----+-----+-----+
| propertyNo | type | rooms | rent |
+-----+-----+-----+-----+
| PG16     | Flat  | 4    | 450  |
| PG26     | Flat  | 3    | 350  |
| PG4      | Flat  | 3    | 350  |
| PL94     | Flat  | 4    | 400  |
| PA14     | House | 6    | 650  |
| PG21     | House | 5    | 600  |
| PG97     | House | 3    | 380  |
+-----+-----+-----+-----+
7 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT COUNT(*) AS myCount
-> FROM PropertyForRent
-> WHERE rent > 350;
+-----+
| myCount |
+-----+
|       6 |
+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT COUNT(DISTINCT propertyNo) AS myCount
-> FROM Viewing
-> WHERE viewDate BETWEEN '1-May-04'
-> AND '31-May-04';
+-----+
| myCount |
+-----+
|       0 |
+-----+
1 row in set, 2 warnings (0.004 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```
1 v SELECT COUNT(DISTINCT propertyNo) AS myCount
2 FROM Viewing
3 WHERE viewDate BETWEEN '1-May-04'
4 AND '31-May-04';
```

MYCOUNT

0

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6.15

bin - mysql -u root -p -113x58

```

| SL23 | John | White | 30000 |
| S66 | Susan | Brand | 24000 |
| S614 | David | Ford | 18000 |
| S637 | Ann | Beach | 12000 |
| S69 | Mary | Howe | 9000 |
| SL41 | Julie | Lee | 9000 |
6 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT propertyNo, type, rooms, rent
-> ORDER BY type;
+-----+-----+-----+-----+
| propertyNo | type | rooms | rent |
+-----+-----+-----+-----+
| P616 | Flat | 4 | 450 |
| PG36 | Flat | 3 | 375 |
| PG64 | Flat | 3 | 350 |
| PG74 | Flat | 4 | 480 |
| PA14 | House | 6 | 650 |
| PG21 | House | 5 | 600 |
| PG97 | House | 3 | 380 |
7 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT COUNT(*) AS myCount
-> FROM PropertyForRent
-> WHERE rent > 350;
+-----+
| myCount |
+-----+
| 6 |
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT COUNT(DISTINCT propertyNo) AS myCount
-> FROM Viewing
-> WHERE viewDate BETWEEN '1-May-04'
-> AND '31-May-04';
+-----+
| myCount |
+-----+
| 0 |
1 row in set, 2 warnings (0.004 sec)

MariaDB [dreamhome]> SELECT COUNT(staffNo) AS myCount,
-> SUM(salary) AS mySum
-> FROM Staff
-> WHERE position = 'Manager';
+-----+-----+
| myCount | mySum |
+-----+-----+
| 2 | 54000 |
1 row in set (0.001 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT COUNT(staffNo) AS myCount,
2   SUM(salary) AS mySum
3   FROM Staff
4 WHERE position = 'Manager';

```

MYCOUNT	MYSUM
2	54000

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6.16

bin - mysql -u root -p -113x58

```

-> ORDER BY type;
+-----+-----+-----+-----+
| propertyNo | type | rooms | rent |
+-----+-----+-----+-----+
| P616 | Flat | 4 | 450 |
| PG36 | Flat | 3 | 375 |
| PG64 | Flat | 3 | 350 |
| PG74 | Flat | 4 | 480 |
| PA14 | House | 6 | 650 |
| PG21 | House | 5 | 600 |
| PG97 | House | 3 | 380 |
7 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT COUNT(*) AS myCount
-> FROM PropertyForRent
-> WHERE rent > 350;
+-----+
| myCount |
+-----+
| 6 |
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT COUNT(DISTINCT propertyNo) AS myCount
-> FROM Viewing
-> WHERE viewDate BETWEEN '1-May-04'
-> AND '31-May-04';
+-----+
| myCount |
+-----+
| 0 |
1 row in set, 2 warnings (0.004 sec)

MariaDB [dreamhome]> SELECT COUNT(staffNo) AS myCount,
-> SUM(salary) AS mySum
-> FROM Staff
-> WHERE position = 'Manager';
+-----+-----+
| myCount | mySum |
+-----+-----+
| 2 | 54000 |
1 row in set (0.001 sec)

MariaDB [dreamhome]> SELECT MIN(salary) AS myMin,
-> MAX(salary) AS myMax,
-> AVG(salary) AS myAvg
-> FROM Staff;
+-----+-----+-----+
| myMin | myMax | myAvg |
+-----+-----+-----+
| 9000 | 30000 | 17000.0000 |
1 row in set (0.003 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.leb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT MIN(salary) AS myMin,
2   MAX(salary) AS myMax,
3   AVG(salary) AS myAvg
4   FROM Staff;

```

MYMIN	MYMAX	MYAVG
9000	30000	17000

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6.17

The screenshot shows two windows side-by-side. On the left is the MySQL command-line interface (bin - mysql -u root -p - 113x58) displaying various SQL queries and their execution results. On the right is the LiveSQL worksheet (https://app.leb2.or...), which contains the same SQL code and displays the results in a tabular format.

MySQL Command Line (Left):

```
--> FROM PropertyForRent
--> WHERE rent > 350;
+-----+
| myCount |
+-----+
| 6 |
+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT COUNT(DISTINCT propertyNo) AS myCount
--> FROM Viewing
--> WHERE viewDate BETWEEN '1-May-04'
--> AND '31-May-04';
+-----+
| myCount |
+-----+
| 0 |
+-----+
1 row in set, 2 warnings (0.004 sec)

MariaDB [dreamhome]> SELECT COUNT(staffNo) AS myCount,
--> SUM(salary) AS mySum
--> FROM Staff
--> WHERE position = 'Manager';
+-----+
| myCount | mySum |
+-----+
| 2 | 54000 |
+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT MIN(salary) AS myMin,
--> MAX(salary) AS myMax,
--> AVG(salary) AS myAvg
--> FROM Staff;
+-----+
| myMin | myMax | myAvg |
+-----+
| 9000 | 38000 | 17000.0000 |
+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT branchNo,
--> COUNT(staffNo) AS myCount,
--> SUM(salary) AS mySum
--> FROM Staff
--> GROUP BY branchNo
--> ORDER BY branchNo;
+-----+
| branchNo | myCount | mySum |
+-----+
| B003 | 3 | 54000 |
| B005 | 2 | 39000 |
| B007 | 1 | 9000 |
+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]>
```

LiveSQL Worksheet (Right):

```
1 v SELECT branchNo,
2 COUNT(staffNo) AS myCount,
3 SUM(salary) AS mySum
4 FROM Staff
5 GROUP BY branchNo
6 ORDER BY branchNo;
```

BRANCHNO	MYCOUNT	mysum
B003	3	54000
B005	2	39000
B007	1	9000

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6.18

The screenshot shows two windows side-by-side. On the left is the MySQL command-line interface (bin - mysql -u root -p - 113x58) displaying various SQL queries and their execution results. On the right is the LiveSQL worksheet (https://app.leb2.or...), which contains the same SQL code and displays the results in a tabular format.

MySQL Command Line (Left):

```
+-----+
| 0 |
+-----+
1 row in set, 2 warnings (0.004 sec)

MariaDB [dreamhome]> SELECT COUNT(staffNo) AS myCount,
--> SUM(salary) AS mySum
--> FROM Staff
--> WHERE position = 'Manager';
+-----+
| myCount | mySum |
+-----+
| 2 | 54000 |
+-----+
1 row in set (0.001 sec)

MariaDB [dreamhome]> SELECT MIN(salary) AS myMin,
--> MAX(salary) AS myMax,
--> AVG(salary) AS myAvg
--> FROM Staff;
+-----+
| myMin | myMax | myAvg |
+-----+
| 9000 | 38000 | 17000.0000 |
+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT branchNo,
--> COUNT(staffNo) AS myCount,
--> SUM(salary) AS mySum
--> FROM Staff
--> GROUP BY branchNo
--> ORDER BY branchNo;
+-----+
| branchNo | myCount | mySum |
+-----+
| B003 | 3 | 54000 |
| B005 | 2 | 39000 |
| B007 | 1 | 9000 |
+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT branchNo,
--> COUNT(staffNo) AS myCount,
--> SUM(salary) AS mySum
--> FROM Staff
--> GROUP BY branchNo
--> HAVING COUNT(staffNo) > 1
--> ORDER BY branchNo;
+-----+
| branchNo | myCount | mySum |
+-----+
| B003 | 3 | 54000 |
| B005 | 2 | 39000 |
+-----+
2 rows in set (0.005 sec)

MariaDB [dreamhome]>
```

LiveSQL Worksheet (Right):

```
1 v SELECT branchNo,
2 COUNT(staffNo) AS myCount,
3 SUM(salary) AS mySum
4 FROM Staff
5 GROUP BY branchNo
6 HAVING COUNT(staffNo) > 1
7 ORDER BY branchNo;
```

BRANCHNO	MYCOUNT	mysum
B003	3	54000
B005	2	39000

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2 rows selected.

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6.19

The screenshot shows two side-by-side interfaces. On the left is a terminal window titled 'bin - mysql -u root -p - 113x58' displaying MySQL commands and their results. On the right is the 'Live SQL' interface from Oracle, which shows the same SQL code and its execution results.

MySQL Terminal (Left):

```
MariaDB [dreamhome]> SELECT MIN(salary) AS myMin,
-> MAX(salary) AS myMax,
-> AVG(salary) AS myAvg
-> FROM Staff;
+-----+-----+-----+
| myMin | myMax | myAvg |
+-----+-----+-----+
| 9000 | 30000 | 17000.0000 |
+-----+-----+-----+
1 row in set (0.003 sec)

MariaDB [dreamhome]> SELECT branchNo,
-> COUNT(staffNo) AS myCount,
-> SUM(salary) AS mySum
-> FROM Staff
-> GROUP BY branchNo
-> ORDER BY branchNo;
+-----+-----+-----+
| branchNo | myCount | mySum |
+-----+-----+-----+
| B003 | 3 | 54900 |
| B005 | 2 | 39900 |
| B007 | 1 | 9900 |
+-----+-----+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT branchNo,
-> COUNT(staffNo) AS myCount,
-> SUM(salary) AS mySum
-> FROM Staff
-> GROUP BY branchNo
-> HAVING COUNT(staffNo) > 1
-> ORDER BY branchNo;
+-----+-----+-----+
| branchNo | myCount | mySum |
+-----+-----+-----+
| B003 | 3 | 54900 |
| B005 | 2 | 39900 |
+-----+-----+-----+
2 rows in set (0.005 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff
-> WHERE branchNo =
-> (SELECT branchNo
-> FROM Branch
-> WHERE street = '163 Main St');
ERROR 3064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Main St)' at line 6
MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff
-> WHERE branchNo =
-> (SELECT branchNo
-> FROM Branch
-> WHERE street = '163 Main St');
Empty set (0.002 sec)
MariaDB [dreamhome]>
```

LiveSQL Interface (Right):

```
1 v SELECT staffNo, fName, lName, position
2 FROM Staff
3 WHERE branchNo =
4 (SELECT branchNo
5 FROM Branch
6 WHERE street = '163 Main St');
```

Results: no data found

6.20

The screenshot shows two side-by-side interfaces. On the left is a terminal window titled 'bin - mysql -u root -p - 113x58' displaying MySQL commands and their results. On the right is the 'LiveSQL' interface from Oracle, which shows the same SQL code and its execution results, including a generated CSV file.

MySQL Terminal (Left):

```
MariaDB [dreamhome]> SELECT branchNo,
-> COUNT(staffNo) AS myCount,
-> SUM(salary) AS mySum
-> FROM Staff
-> GROUP BY branchNo
-> ORDER BY branchNo;
+-----+-----+-----+
| branchNo | myCount | mySum |
+-----+-----+-----+
| B003 | 3 | 54900 |
| B005 | 2 | 39900 |
| B007 | 1 | 9900 |
+-----+-----+-----+
3 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT branchNo,
-> COUNT(staffNo) AS myCount,
-> SUM(salary) AS mySum
-> FROM Staff
-> WHERE branchNo =
-> (SELECT branchNo
-> FROM Branch
-> WHERE street = '163 Main St');
ERROR 3064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'Main St)' at line 6
MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff
-> WHERE branchNo =
-> (SELECT branchNo
-> FROM Branch
-> WHERE street = '163 Main St');
Empty set (0.002 sec)
MariaDB [dreamhome]> SELECT staffNo, fName, lName, position,
-> salary - 17000 As salDiff
-> FROM Staff
-> WHERE salary > 17000;
+-----+-----+-----+-----+
| staffNo | fName | lName | position | salDiff |
+-----+-----+-----+-----+
| SG14 | David | Ford | Supervisor | 1000 |
| SG5 | Susan | Brand | Manager | 7000 |
| SL21 | John | White | Manager | 13000 |
+-----+-----+-----+-----+
3 rows in set (0.003 sec)
MariaDB [dreamhome]>
```

LiveSQL Interface (Right):

```
1 v SELECT staffNo, fName, lName, position,
2 salary - 17000 As salDiff
3 FROM Staff
4 WHERE salary > 17000;
```

Results:

STAFFNO	FNAME	LNAME	POSITION	SALDIFF
SG14	David	Ford	Supervisor	1000
SG5	Susan	Brand	Manager	7000
SL21	John	White	Manager	13000

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6.21

The screenshot shows two side-by-side interfaces. On the left is the MySQL command-line interface (bin - mysql -u root -p -113x58). On the right is the Oracle Live SQL worksheet (<https://app.leb2.oracle.com>). Both are running the same SQL query:

```
1 v SELECT propertyNo, street, city, postcode, type, rooms, rent
2 FROM PropertyForRent
3 WHERE staffNo IN
4 (SELECT staffNo
5 FROM Staff
6 WHERE branchNo =
7 (SELECT branchNo
8 FROM Branch
9 WHERE street = '163 Main St'));
```

The MySQL interface shows the result of the query, which is an empty set (0.002 sec). The Oracle Live SQL interface shows the query in the worksheet, and below it, a message: "no data found".

6.22

The screenshot shows two side-by-side interfaces. On the left is the MySQL command-line interface (bin - mysql -u root -p -113x58). On the right is the Oracle Live SQL worksheet (<https://app.leb2.oracle.com>). Both are running the same SQL query:

```
1 v SELECT staffNo, fName, lName, position, salary
2 FROM Staff
3 WHERE salary > SOME
4 (SELECT salary
5 FROM Staff
6 WHERE branchNo = 'B003');
```

The MySQL interface shows the result of the query, which is an empty set (0.002 sec). The Oracle Live SQL interface shows the query in the worksheet and the resulting data table below:

STAFFNO	FNAME	LNAME	POSITION	SALARY
SL21	John	White	Manager	30000
SG5	Susan	Brand	Manager	24000
SG14	David	Ford	Supervisor	18000

Below the table is a "Download CSV" button. The Oracle Live SQL interface also displays the copyright notice: "2024 Oracle - Live SQL 24.1.3, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation · Ask Tom · Dev Gym · Built with ❤ using Oracle APEX · Privacy · Terms of Use".

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6.23

bin — mysql -u root -p -113x58

```

3 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT propertyNo, street, city, postcode, type, rooms, rent
-> FROM PropertyForRent
-> WHERE staffNo IN
-> (SELECT staffNo
-> FROM Staff
-> WHERE branchNo =
-> (SELECT branchNo
-> FROM Branch
-> WHERE street = '163 Main St'));
Empty set (0.003 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > SOME
-> (SELECT salary
-> FROM Staff
-> WHERE branchNo = 'B003');

| staffNo | fName | lName | position | salary |
|-----|-----|-----|-----|-----|
| S01   | David | Ford  | Supervisor | 18000 |
| S05   | Susan  | Brand  | Manager    | 24000 |
| SL21  | John   | White | Manager    | 30000 |

3 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > ALL
-> (SELECT salary
-> FROM Staff
-> WHERE branchNo = 'B003');

| staffNo | fName | lName | position | salary |
|-----|-----|-----|-----|-----|
| SL21  | John  | White | Manager | 30000 |

1 row in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > ANY
-> (SELECT salary
-> FROM Staff
-> WHERE branchNo = 'B003');

| staffNo | fName | lName | position | salary |
|-----|-----|-----|-----|-----|
| SL21  | John  | White | Manager | 30000 |

1 row in set (0.002 sec)

MariaDB [dreamhome]>
MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.eb2.oracle.com/ Start Page Untitled

SQL Worksheet Actions Run

```

1 v SELECT staffNo, fName, lName, position, salary
2 FROM Staff
3 WHERE salary > ALL
4 (SELECT salary
5 FROM Staff
6 WHERE branchNo = 'B003');
7
8

```

STAFFNO	FNAME	LNAME	POSITION	SALARY
SL21	John	White	Manager	30000

Download CSV

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6.24

bin — mysql -u root -p -113x58

```

3 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > ALL
-> (SELECT salary
-> FROM Staff
-> WHERE branchNo = 'B003');

| staffNo | fName | lName | position | salary |
|-----|-----|-----|-----|-----|
| SL21  | John  | White | Manager | 30000 |

1 row in set (0.002 sec)

MariaDB [dreamhome]>
MariaDB [dreamhome]> SELECT staffNo, fName, lName, position, salary
-> FROM Staff
-> WHERE salary > ANY
-> (SELECT salary
-> FROM Staff
-> WHERE branchNo = 'B003');

| staffNo | fName | lName | position | salary |
|-----|-----|-----|-----|-----|
| SL21  | John  | White | Manager | 30000 |

1 row in set (0.002 sec)

MariaDB [dreamhome]>
MariaDB [dreamhome]> SELECT c.clientNo, fName, lName,
-> propertyNo, comments
-> FROM Client c, viewing v
-> WHERE c.ID = v.clientID;
ERROR 1054 (42S22): Unknown column 'comments' in 'field list'
MariaDB [dreamhome]> SELECT c.clientNo, fName, lName,
-> propertyNo, comment
-> FROM Client c, viewing v
-> WHERE c.ID = v.clientID;

| clientNo | fName | lName | propertyNo | comment |
|-----|-----|-----|-----|-----|
| CR56   | Fred  | Flintstone | PA14 | NULL |
| CR74   | Albert | Johnstone | PG36 | NULL |
| CR77   | Clark  | Kent     | PG6  | Tidy but too small |
| CR79   | Joe    | Bloggs   | PA14 | NULL |
| CR83   | Edward | Scissorhands | PG4 | NULL |
| CR42   | Wilma  | Flintstone | PG14 | NULL |
| CR62   | Wilma  | Flintstone | PG21 | NULL |
| CR62   | Wilma  | Flintstone | PA14 | NULL |
| CR77   | Clark  | Kent     | PG21 | Not bad at all. |
| CR77   | Clark  | Kent     | PG36 | Kitchen too small. |
| CR77   | Clark  | Kent     | PG16 | NULL |
| CR62   | Bruce  | Wayne   | PG21 | NULL |

12 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.eb2.oracle.com/ Start Page Untitled

SQL Worksheet Actions Run

```

1 v SELECT c.clientNo, fName, lName,
2 propertyNo, comments
3 FROM Client c, viewing v
4 WHERE c.ID = v.clientID;

```

CLIENTNO	FNAME	LNAME	PROPERTYNO	COMMENTS
CR56	Fred	Flintstone	PA14	-
CR74	Albert	Johnstone	PG36	-
CR77	Clark	Kent	PG4	Tidy but too small
CR79	Joe	Bloggs	PA14	-
CR83	Edward	Scissorhands	PG4	-
CR62	Wilma	Flintstone	PG14	-
CR62	Wilma	Flintstone	PG21	-
CR62	Wilma	Flintstone	PA14	-
CR77	Clark	Kent	PG21	Not bad at all.
CR77	Clark	Kent	PG36	Kitchen too small.
CR77	Clark	Kent	PG16	-
CR62	Bruce	Wayne	PG21	-

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6.25

bin — mysql -u root -p -113x58

```

--> WHERE salary > ALL
--> (SELECT salary
--> FROM Staff
--> WHERE branchNo = 'B003');
+-----+-----+-----+-----+
| staffNo | fName  | lName | position | salary |
+-----+-----+-----+-----+
| SL21   | John   | White | Manager  | 30000 |
+-----+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]>
MariaDB [dreamhome]> SELECT c.clientNo, fName, lName,
    propertyNo, comments
    --> FROM Client c, viewing v
    --> WHERE c.ID = v.clientID;
ERROR 1054 (42S22): Unknown column 'comments' in 'field list'
MariaDB [dreamhome]> SELECT c.clientNo, fName, lName,
    propertyNo, comments
    --> FROM Client c, viewing v
    --> WHERE c.ID = v.clientID;
+-----+-----+-----+-----+-----+
| clientNo | fName  | lName | propertyNo | comment |
+-----+-----+-----+-----+-----+
| CR66    | Fred   | Flintstone | PA14    | NULL     |
| CR74    | Albert | Johnstone  | PG36   | NULL     |
| CR77    | Clark   | Kent        | PG4    | Tidy but too small |
| CR79    | Joe    | Bloggs      | PA14    | NULL     |
| CR83    | Edward | Scissorhands | PA14   | NULL     |
| CR62    | Wilma   | Flintstone  | PG21   | NULL     |
| CR62    | Wilma   | Flintstone  | PG21   | NULL     |
| CR62    | Wilma   | Flintstone  | PA14    | NULL     |
| CR77    | Clark   | Kent        | PG21   | Not bad at all. |
| CR77    | Clark   | Kent        | PG36   | Kitchen too small.|
| CR77    | Clark   | Kent        | PG16   | NULL     |
| CR77    | Clark   | Kent        | PG21   | NULL     |
| NULL    | Bruce   | Wayne      | PG21   | NULL     |
+-----+-----+-----+-----+-----+
12 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT s.branchNo, s.staffNo, fName, lName,
    --> propertyNo
    --> FROM Staff s, PropertyForRent p
    --> WHERE s.staffNo = p.staffNo
    --> ORDER BY s.branchNo, s.staffNo, propertyNo;
+-----+-----+-----+-----+
| branchNo | staffNo | fName  | lName | propertyNo |
+-----+-----+-----+-----+
| B003    | SG14    | David  | Ford  | PG16    |
| B003    | SG37    | Ann    | Beech | PG21    |
| B003    | SG37    | Ann    | Beech | PG36    |
| B005    | SL41    | Julie  | Lee   | PL94    |
| B007    | SA9     | Mary   | Howe  | PA14    |
| B007    | SA9     | Mary   | Howe  | PG4     |
| B007    | SA9     | Mary   | Howe  | PG97    |
+-----+-----+-----+-----+
7 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

LiveSQL Oracle.com

SQL Worksheet

```

1 v SELECT s.branchNo, s.staffNo, fName, lName,
2 propertyNo
3 FROM Staff s, PropertyForRent p
4 WHERE s.staffNo = p.staffNo
5 ORDER BY s.branchNo, s.staffNo, propertyNo;

```

BRANCHNO	STAFFNO	FNAME	LNAME	PROPERTYNO
B003	SG14	David	Ford	PG16
B003	SG37	Ann	Beech	PG21
B003	SG37	Ann	Beech	PG36
B005	SL41	Julie	Lee	PL94
B007	SA9	Mary	Howe	PA14
B007	SA9	Mary	Howe	PG4

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6.26

bin — mysql -u root -p -113x58

```

--> FROM Client c, viewing v
--> WHERE c.ID = v.clientID;
+-----+-----+-----+-----+
| clientNo | fName  | lName | propertyNo | comment |
+-----+-----+-----+-----+
| CR66    | Fred   | Flintstone | PA14    | NULL     |
| CR74    | Albert | Johnstone  | PG36   | NULL     |
| CR77    | Clark   | Kent        | PG4    | Tidy but too small |
| CR79    | Joe    | Bloggs      | PA14    | NULL     |
| CR83    | Edward | Scissorhands | PA14   | NULL     |
| CR62    | Wilma   | Flintstone  | PG21   | NULL     |
| CR62    | Wilma   | Flintstone  | PG21   | NULL     |
| CR62    | Wilma   | Flintstone  | PA14    | NULL     |
| CR77    | Clark   | Kent        | PG21   | Not bad at all. |
| CR77    | Clark   | Kent        | PG36   | Kitchen too small.|
| CR77    | Clark   | Kent        | PG16   | NULL     |
| CR77    | Clark   | Kent        | PG21   | NULL     |
| NULL    | Bruce   | Wayne      | PG21   | NULL     |
+-----+-----+-----+-----+
12 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT s.branchNo, s.staffNo, fName, lName,
    --> propertyNo
    --> FROM Staff s, PropertyForRent p
    --> WHERE s.staffNo = p.staffNo
    --> ORDER BY s.branchNo, s.staffNo, propertyNo;
+-----+-----+-----+-----+
| branchNo | staffNo | fName  | lName | propertyNo |
+-----+-----+-----+-----+
| B003    | SG14    | David  | Ford  | PG16    |
| B003    | SG37    | Ann    | Beech | PG21    |
| B003    | SG37    | Ann    | Beech | PG36    |
| B005    | SL41    | Julie  | Lee   | PL94    |
| B007    | SA9     | Mary   | Howe  | PA14    |
| B007    | SA9     | Mary   | Howe  | PG4     |
| B007    | SA9     | Mary   | Howe  | PG97    |
+-----+-----+-----+-----+
7 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT b.branchNo, b.city, s.staffNo, fName, lName,
    --> propertyNo
    --> FROM Branch b, Staff s, PropertyForRent p
    --> WHERE b.branchNo = s.branchNo AND
    --> s.staffNo = p.staffNo
    --> ORDER BY b.branchNo, s.staffNo, propertyNo;
+-----+-----+-----+-----+-----+
| branchNo | city    | staffNo | fName  | lName | propertyNo |
+-----+-----+-----+-----+-----+
| B003    | Glasgow | SG14   | David  | Ford  | PG16    |
| B003    | Glasgow | SG37   | Ann    | Beech | PG21    |
| B003    | Glasgow | SG37   | Ann    | Beech | PG36    |
| B005    | London   | SL41   | Julie  | Lee   | PL94    |
| B007    | Aberdeen | SA9    | Mary   | Howe  | PA14    |
| B007    | Aberdeen | SA9    | Mary   | Howe  | PG4     |
| B007    | Aberdeen | SA9    | Mary   | Howe  | PG97    |
+-----+-----+-----+-----+
7 rows in set (0.004 sec)

MariaDB [dreamhome]> 
```

LiveSQL Oracle.com

SQL Worksheet

```

1 v SELECT b.branchNo, b.city, s.staffNo, fName, lName,
2 propertyNo
3 FROM Branch b, Staff s, PropertyForRent p
4 WHERE b.branchNo = s.branchNo AND
5 s.staffNo = p.staffNo
6 ORDER BY b.branchNo, s.staffNo, propertyNo;

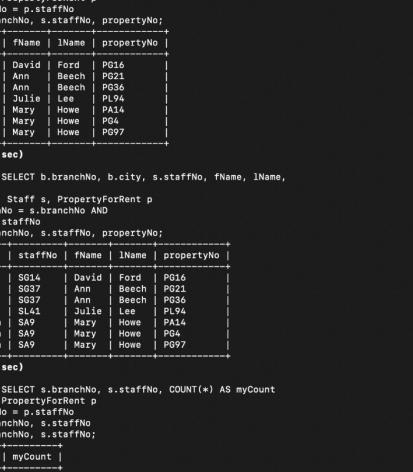
```

BRANCHNO	CITY	STAFFNO	FNAME	LNAME	PROPERTYNO
B003	Glasgow	SG14	David	Ford	PG16
B003	Glasgow	SG37	Ann	Beech	PG21
B003	Glasgow	SG37	Ann	Beech	PG36
B005	London	SL41	Julie	Lee	PL94
B007	Aberdeen	SA9	Mary	Howe	PA14
B007	Aberdeen	SA9	Mary	Howe	PG4

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6.27



MariaDB [dreamhome]> SELECT s.branchNo, s.staffNo, fName, lName, propertyNo;
--> propertyNo
--> FROM Staff s, PropertyForRent p
--> WHERE s.staffNo = p.staffNo
--> ORDER BY s.branchNo, s.staffNo, propertyNo;

branchNo	staffNo	fName	lName	propertyNo
B003	SG14	David	Ford	PG16
B003	SG37	Ann	Beech	PG21
B003	SG37	Ann	Beech	PG36
B005	SL41	Julie	Lee	PL94
B007	SA9	Mary	Howe	PA14
B007	SA9	Mary	Howe	PG4
B007	SA9	Mary	Howe	PG97

7 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT b.branchNo, b.city, s.staffNo, fName, lName, propertyNo;
--> propertyNo
--> FROM Branch b, Staff s, PropertyForRent p
--> WHERE b.branchNo = s.branchNo AND
--> s.staffNo = p.staffNo
--> ORDER BY b.branchNo, s.staffNo, propertyNo;

branchNo	city	staffNo	fName	lName	propertyNo
B003	Glasgow	SG14	David	Ford	PG16
B003	Glasgow	SG37	Ann	Beech	PG21
B003	Glasgow	SG37	Ann	Beech	PG36
B005	London	SL41	Julie	Lee	PL94
B007	Aberdeen	SA9	Mary	Howe	PA14
B007	Aberdeen	SA9	Mary	Howe	PG4
B007	Aberdeen	SA9	Mary	Howe	PG97

7 rows in set (0.004 sec)

MariaDB [dreamhome]> SELECT s.branchNo, s.staffNo, COUNT(*) AS myCount
--> WHERE staffNo = p.staffNo
--> GROUP BY s.branchNo, s.staffNo
--> ORDER BY s.branchNo, s.staffNo;

branchNo	staffNo	myCount
B003	SG14	1
B003	SG37	2
B005	SL41	1
B007	SA9	3

4 rows selected.

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6.28

The screenshot shows two terminal windows side-by-side. The left window is a MySQL command-line interface (CLI) running on Mac OS X. It displays several SELECT statements and their results. The right window is a web-based SQL worksheet from 'livesql.oracle.com'.

MySQL CLI (Left Window):

- SELECT s.branchNo, s.staffNo, COUNT(*) AS myCount
FROM Staff s
INNER JOIN PropertyForRent p
WHERE s.staffNo = p.staffNo
GROUP BY s.branchNo, s.staffNo
ORDER BY s.branchNo, s.staffNo;
- SELECT b.*
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;
- SELECT b.*
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;
- SELECT *
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;
- SELECT *
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;
- SELECT *
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;
- SELECT *
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;
- SELECT *
FROM Branch b LEFT JOIN
PropertyForRent p ON b.City = p.City;

livesql.oracle.com (Right Window):

- SQL Worksheet tab is active.
- Live SQL icon is present.
- Feedback, Help, and Start Page buttons are visible.
- Session ID: 1v
- Query:

```
1v SELECT b.*, p.*  
2 FROM Branch b LEFT JOIN  
3 PropertyForRent p ON b.City = p.City;
```

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6.29

```
| branchNo | street | city | postcode | propertyNo | street | city | postcode | type |
| rooms | rent | ownerNo | staffNo | branchNo | picture | floorPlan | |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| B007 | 16 Argyll Street | Aberdeen | AB2 3SU | PA14 | 16 Holhead | Aberdeen | AB7 5SU | Hous
| 6 | 56 Cover Drive | London | NW10 6EU | PL94 | 5 Novar Drive | Glasgow | G12 9AX | Flat
| B003 | 163 Main Street | Glasgow | G11 9QX | PG16 | 5 Novar Drive | Glasgow | G12 9AX | Flat
| 4 | 450 | C093 | SG14 | B003 | images/house3.jpg | images/plan1.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | PG21 | 18 Dale Road | Glasgow | G12 | Hous
| 5 | 600 | C087 | SG37 | B003 | images/house4.jpg | images/plan1.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | PG36 | 22 Deor Road | Glasgow | G32 4QX | Flat
| 3 | 375 | C093 | SG37 | B003 | images/house5.jpg | images/plan1.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | PG6 | 6 Lawrence Street | Glasgow | G11 9QX | Flat
| 3 | 350 | C048 | SA9 | B003 | images/house2.jpg | images/plan1.jpg |
| B007 | 16 Argyll Street | Aberdeen | AB2 3SU | PG97 | Muir Drive | Aberdeen | AB42 1DD | Hous
| 3 | 600 | C087 | SG37 | B003 | images/house1.jpg | images/plan1.jpg |
| B002 | 56 Cover Drive | London | NW10 6EU | PL94 | 6 Argyll Street | London | NW2 | Flat
| 4 | 400 | C087 | SL41 | B005 | images/house3.jpg | images/plan1.jpg |
| B005 | 22 Deor Road | London | SW1 4EH | PL94 | 6 Argyll Street | London | NW2 | Flat
| 4 | 400 | C087 | SL41 | B005 | images/house3.jpg | images/plan1.jpg |
| B004 | 32 Manse Road | Bristol | BS99 1NZ | NULL | NULL | NULL | NULL | NULL |
| NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
9 rows in set (0.004 sec)

MariaDB [dreamhome]> SELECT b.* , p.*
-> FROM Branch b RIGHT JOIN
-> PropertyForRent p ON b.City = p.City;
+-----+-----+-----+-----+-----+-----+-----+-----+
| branchNo | street | city | postcode | propertyNo | street | city | postcode | type |
| rooms | rent | ownerNo | staffNo | branchNo | picture | floorPlan | |
+-----+-----+-----+-----+-----+-----+-----+-----+
| B002 | 56 Cover Drive | London | NW10 6EU | PL94 | 6 Argyll Street | London | NW2 | Flat
| B003 | 163 Main Street | Glasgow | G11 9QX | PG16 | 5 Novar Drive | Glasgow | G12 9AX | Flat
| 4 | 450 | C093 | SG14 | B003 | images/house3.jpg | images/plan1.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | PG21 | 18 Dale Road | Glasgow | G12 | Hous
| B003 | 163 Main Street | Glasgow | G11 9QX | PG36 | 22 Deor Road | Glasgow | G32 4QX | Flat
| 3 | 375 | C093 | SG37 | B003 | images/house5.jpg | images/plan1.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | PG6 | 6 Lawrence Street | Glasgow | G11 9QX | Flat
| 3 | 350 | C048 | SA9 | B003 | images/house2.jpg | images/plan1.jpg |
| B007 | 16 Argyll Street | Aberdeen | AB2 3SU | PG97 | Muir Drive | Aberdeen | AB42 1DD | Hous
| 3 | 380 | C046 | SA9 | B007 | images/house1.jpg | images/plan1.jpg |
+-----+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.002 sec)

MariaDB [dreamhome]> 
```

6.30

bin - mysql -u root -p - 113x58

```
| B005 | 22 Deer Road | London | SW1 4EH | PL94 | 6 Argyl Street | London | NW2 | Flat
| B005 | 400 | CO87 | SL41 | B005 | images/house03.jpg | Images/plan1.jpg | London | NW2 | Flat
| B005 | 16 Argyl Street | Aberdeen | AB2 3SU | PA14 | 16 Holhead | Aberdeen | AB7 5SU | House
| e | 6 | 160 | CO46 | SA9 | B007 | images/house2.jpg | Images/plan1.jpg | Aberdeen | AB7 5SU | House
| B007 | 16 Argyl Street | Aberdeen | AB2 3SU | PG67 | Muir Drive | Aberdeen | AB42 1DD | House
| e | 3 | 388 | CO46 | SA9 | B007 | images/house1.jpg | Images/plan1.jpg | Aberdeen | AB42 1DD | House
+-----+
8 rows in set (0.002 sec)

MariaDB [dreamhome]> SELECT b.* , p.*
-> FROM Branch b FULL JOIN
-> PropertyForRent p ON b.City = p.City;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'FULL JOIN
PropertyForRent p ON b.City = p.City' at line 2
MariaDB [dreamhome]> SELECT b.* , p.*
-> FROM Branch b FULL JOIN
-> PropertyForRent p ON b.City = p.City;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'FULL JOIN
PropertyForRent p ON b.City = p.City' at line 2
MariaDB [dreamhome]> SELECT b.* , p.*
-> FROM Branch b LEFT JOIN
-> PropertyForRent p ON b.City = p.City
-> UNION
-> SELECT b.* , p.*
-> FROM Branch b RIGHT JOIN
-> PropertyForRent p ON b.City = p.City;
+-----+
| branchNo | street | city | postcode | propertyNo | street | city | postcode | type |
| rooms | rent | ownerNo | staffNo | branchNo | picture | floorPlan | |
+-----+
| B007 | 16 Argyl Street | Aberdeen | AB2 3SU | PA14 | 16 Holhead | Aberdeen | AB7 5SU | House
| e | 6 | 658 | CO46 | SA9 | B007 | images/house2.jpg | Images/plan1.jpg | Aberdeen | AB7 5SU | House
| B003 | 163 Main Street | Glasgow | G11 9QX | PG16 | 5 Novar Drive | Glasgow | G12 9AX | Flat
| e | 4 | 458 | CO93 | SL01 | B003 | images/house03.jpg | Images/plan1.jpg | Glasgow | G12 9AX | Flat
| B003 | 163 Main Street | Glasgow | G11 9QX | PG36 | 2 Manor Road | Glasgow | G32 4OX | Flat
| e | 5 | 549 | CO87 | SG37 | B003 | images/house4.jpg | Images/plan1.jpg | Glasgow | G32 4OX | Flat
| B003 | 163 Main Street | Glasgow | G11 9QX | PG64 | 6 Lawrence Street | Glasgow | G11 9QX | Flat
| e | 3 | 375 | CO93 | SG37 | B003 | images/house6.jpg | Images/plan1.jpg | Glasgow | G11 9QX | Flat
| B007 | 16 Argyl Street | Aberdeen | AB2 3SU | PA14 | 16 Argyl Street | Aberdeen | AB42 1DD | House
| e | 3 | 388 | CO46 | SA9 | B007 | images/house1.jpg | Images/plan1.jpg | Aberdeen | AB42 1DD | House
| B002 | 55 Cover Drive | London | NW10 6EU | PL94 | 6 Argyl Street | London | NW2 | Flat
| e | 4 | 400 | CO87 | SL41 | B005 | images/house3.jpg | Images/plan1.jpg | London | NW2 | Flat
| B005 | 28 Deer Road | London | SW1 4EH | PL94 | 6 Argyl Street | London | NW2 | Flat
| e | 4 | 400 | CO87 | SL43 | B005 | images/house03.jpg | Images/plan1.jpg | London | NW2 | Flat
| B004 | 32 Manse Road | Bristol | BS99 1NZ | NULL | NULL
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL
+-----+
9 rows in set (0.004 sec)

MariaDB [dreamhome]> 
```

livesql.oracle.com https://app.leb2or... Start Page Untitled

Live SQL Feedback Help pitchayapat.waree@gmail.com

SQL Worksheet Clear Find Actions Save Run

```
1 \u003c SELECT b.* , p.*\u003e
2 \u003c FROM Branch b FULL JOIN\u003e
3 \u003c PropertyForRent p ON b.City = p.City;\u003e
4 
```

BRANCHNO	STREET	CITY	POSTCODE	PROPERTYNO	STREET	CITY	POSTCODE
B007	16 Argyl Street	Aberdeen	AB2 3SU	PA14	16 Holhead	Aberdeen	AB7 5SU
B003	163 Main Street	Glasgow	G11 9QX	PG16	5 Novar Drive	Glasgow	G12 9AX
B003	163 Main Street	Glasgow	G11 9QX	PG36	2 Manor Road	Glasgow	G32 4OX
B003	163 Main Street	Glasgow	G11 9QX	PG64	6 Lawrence Street	Glasgow	G11 9QX
B007	16 Argyl Street	Aberdeen	AB2 3SU	PA14	16 Argyl Street	Aberdeen	AB42 1DD
B002	55 Cover Drive	London	NW10 6EU	PL94	6 Argyl Street	London	NW2
B005	28 Deer Road	London	SW1 4EH	PL94	6 Argyl Street	London	NW2
B004	32 Manse Road	Bristol	BS99 1NZ	NULL	NULL	Glasgow	G32 4OX
R002	163 Main Street	Glasgow	G11 9QX	PG36	2 Manor Road	Glasgow	G32 4OX

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6.31

bin — mysql -u root -p - 113x58

```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'FULL JOIN
PropertyForRent p ON b.City = p.City' at line 2
MariaDB [dreamhome] SELECT *.* , p.* 
--> FROM Branch b LEFT JOIN
--> PropertyForRent p ON b.City = p.City;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'FULL JOIN
PropertyForRent p ON b.City = p.City' at line 2
MariaDB [dreamhome] SELECT *.* , p.* 
--> FROM Branch b LEFT JOIN
--> PropertyForRent p ON b.City = p.City;
--> UNION
--> SELECT b.* , p.* 
--> FROM Branch b RIGHT JOIN
--> PropertyForRent p ON b.City = p.City;

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| branchNo | street | city | postcode | propertyNo | street | city | postcode | type |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| B007 | 16 Argyll Street | Aberdeen | AB2 3SU | PA14 | 16 Holmehead | Aberdeen | AB7 5SU | House
| e | 6 | 658 | CO46 | SA9 | B007 | images/house2.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P016 | 5 Novar Drive | Glasgow | G12 9AX | Flat
| 4 | 458 | C093 | SG14 | B003 | images/house3.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P021 | 18 Dale Road | Glasgow | G12 | House
| e | 608 | C097 | SA9 | B003 | images/house4.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P026 | 6 Lawrence Street | Glasgow | G32 4QX | Flat
| 3 | 375 | C093 | SG37 | B003 | images/house5.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P04 | 6 Muir Drive | Aberdeen | AB42 1DD | House
| e | 3 | 380 | CO48 | SA9 | B007 | images/house1.jpg | images/plani.jpg |
| B002 | 16 Cover Drive | London | NW18 6EU | PL04 | 6 Argyll Street | London | NW2 | Flat
| 4 | 408 | C097 | SL41 | B005 | images/house3.jpg | images/plani.jpg |
| B005 | 22 Deer Road | London | SW1 4EH | PL04 | 6 Argyll Street | London | NW2 | Flat
| 4 | 408 | C097 | SL41 | B005 | images/house3.jpg | images/plani.jpg |
| B004 | 32 Mans Road | Bristol | BS99 1NZ | NULL | NULL | NULL | NULL | NULL |
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
--> FROM Staff s
--> WHERE EXISTS
--> (SELECT * FROM Branch b WHERE s.branchNo = b.branchNo AND
--> city = 'London');
+-----+-----+-----+-----+
| staffNo | fName | lName | position |
+-----+-----+-----+-----+
| SL21 | John | White | Manager |
| SL41 | Julie | Lee | Assistant |
+-----+-----+-----+-----+
2 rows in set (0.003 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.eb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT staffNo, fName, lName, position
2 FROM Staff s
3 WHERE EXISTS
4 (SELECT * FROM Branch b WHERE s.branchNo = b.branchNo AND
5 city = 'London'); 
```

STAFFNO	FNAME	LNAME	POSITION
SL21	John	White	Manager
SL41	Julie	Lee	Assistant

[Download CSV](#)

2 rows selected.

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6.32

bin — mysql -u root -p - 113x58

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| branchNo | street | city | postcode | propertyNo | street | city | postcode | type |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| B007 | 16 Argyll Street | Aberdeen | AB2 3SU | PA14 | 16 Holmehead | Aberdeen | AB7 5SU | House
| e | 6 | 658 | CO46 | SA9 | B007 | images/house2.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P016 | 5 Novar Drive | Glasgow | G12 9AX | Flat
| 4 | 458 | C093 | SG14 | B003 | images/house3.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P021 | 18 Dale Road | Glasgow | G12 | House
| e | 608 | C097 | SA9 | B003 | images/house4.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P026 | 6 Lawrence Street | Glasgow | G32 4QX | Flat
| 3 | 375 | C093 | SG37 | B003 | images/house5.jpg | images/plani.jpg |
| B003 | 163 Main Street | Glasgow | G11 9QX | P04 | 6 Muir Drive | Aberdeen | AB42 1DD | House
| e | 3 | 380 | CO48 | SA9 | B007 | images/house1.jpg | images/plani.jpg |
| B002 | 16 Cover Drive | London | NW18 6EU | PL04 | 6 Argyll Street | London | NW2 | Flat
| 4 | 408 | C097 | SL41 | B005 | images/house3.jpg | images/plani.jpg |
| B005 | 22 Deer Road | London | SW1 4EH | PL04 | 6 Argyll Street | London | NW2 | Flat
| 4 | 408 | C097 | SL41 | B005 | images/house3.jpg | images/plani.jpg |
| B004 | 32 Mans Road | Bristol | BS99 1NZ | NULL | NULL | NULL | NULL | NULL |
| +-----+-----+-----+-----+-----+-----+-----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
--> FROM Staff s
--> WHERE EXISTS
--> (SELECT * FROM Branch b WHERE s.branchNo = b.branchNo AND
--> city = 'London');
+-----+-----+-----+-----+
| staffNo | fName | lName | position |
+-----+-----+-----+-----+
| SL21 | John | White | Manager |
| SL41 | Julie | Lee | Assistant |
+-----+-----+-----+-----+
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city
--> FROM Branch
--> WHERE city IS NOT NULL
--> UNION
--> SELECT city
--> FROM PropertyForRent
--> WHERE city IS NOT NULL;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Bristol |
| Aberdeen |
+-----+
4 rows in set (0.003 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet https://app.eb2.or... Start Page Untitled

SQL Worksheet Clear Find Actions Save Run

```

1 v SELECT city
2 FROM Branch
3 WHERE city IS NOT NULL
4 UNION
5 SELECT city
6 FROM PropertyForRent
7 WHERE city IS NOT NULL; 
```

CITY
Aberdeen
Bristol
Glasgow
London

[Download CSV](#)

4 rows selected.

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65070503428 Pitchayapat Wareevanich

6.33

The screenshot shows two panes. The left pane is a MySQL command-line interface with the following session:

```
bin - mysql -u root -p - 113x58
MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff s
-> WHERE EXISTS
-> (SELECT * FROM Branch b WHERE s.branchNo = b.branchNo AND
-> city = 'London');
+-----+-----+-----+-----+
| staffNo | fName | lName | position |
+-----+-----+-----+-----+
| SL21 | John | White | Manager |
| SL43 | Julie | Lee | Assistant |
+-----+-----+-----+-----+
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> INTERSECT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Bristol |
| Aberdeen |
+-----+
4 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> INTERSECT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Aberdeen |
+-----+
3 rows in set (0.005 sec)

MariaDB [dreamhome]>
```

The right pane is a LiveSQL worksheet with the following SQL code:

```
1 v SELECT city FROM Branch
2 INTERSECT
3 SELECT city FROM PropertyForRent;
```

A dropdown menu labeled "CITY" shows the selected cities: Aberdeen, Glasgow, and London. A "Download CSV" button is present.

6.34

The screenshot shows two panes. The left pane is a MySQL command-line interface with the following session:

```
bin - mysql -u root -p - 113x58
MariaDB [dreamhome]> SELECT staffNo, fName, lName, position
-> FROM Staff s
-> WHERE EXISTS
-> (SELECT * FROM Branch b WHERE s.branchNo = b.branchNo AND
-> city = 'London');
+-----+-----+-----+-----+
| staffNo | fName | lName | position |
+-----+-----+-----+-----+
| SL21 | John | White | Manager |
| SL43 | Julie | Lee | Assistant |
+-----+-----+-----+-----+
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city
-> FROM Branch
-> WHERE city IS NOT NULL
-> UNION
-> SELECT city
-> FROM PropertyForRent
-> WHERE city IS NOT NULL;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Bristol |
| Aberdeen |
+-----+
4 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> INTERSECT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Aberdeen |
+-----+
3 rows in set (0.005 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> MINUS
-> SELECT city FROM PropertyForRent;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELECT city FROM PropertyForRent' at line 3
MariaDB [dreamhome]> SELECT city FROM Branch
-> EXCEPT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| Bristol |
+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]>
```

The right pane is a LiveSQL worksheet with the following SQL code:

```
1 v SELECT city FROM Branch
2 MINUS
3 SELECT city FROM PropertyForRent;
```

A dropdown menu labeled "CITY" shows the selected city: Bristol. A "Download CSV" button is present.

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6.35

The screenshot shows two windows side-by-side. On the left is a terminal window titled 'bin - mysql -u root -p - 113x58' displaying MySQL queries and their results. On the right is a browser-based 'Live SQL' interface from 'livesql.oracle.com'.

MySQL Terminal (Left):

```
| staffNo | fName | lName | position |
| SL21   | John   | White  | Manager
| SL41   | Julie  | Lee    | Assistant
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city
-> FROM Branch
-> WHERE city IS NOT NULL
-> UNION
-> SELECT city
-> FROM PropertyForRent
-> WHERE city IS NOT NULL;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Bristol |
| Aberdeen |
+-----+
4 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> INTERSECT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Aberdeen |
+-----+
3 rows in set (0.005 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> SELECT city FROM PropertyForRent;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELECT city FROM PropertyForRent' at line 3
MariaDB [dreamhome]> SELECT city FROM Branch
-> EXCEPT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| Bristol |
+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> INSERT INTO Staff
-> VALUES ('SG16', 'Alan', 'Brown', 'Assistant', 'M', Date'1957-05-25',
-> 8300, 'B003', '0835497615', '0835497615', 'pitchayapat.waree@gmail.com');
Query OK, 1 row affected (0.004 sec)

MariaDB [dreamhome]>
```

Live SQL Worksheet (Right):

```
1 v INSERT INTO Staff
2   VALUES ('SG16', 'Alan', 'Brown', 'Assistant', 'M', Date'1957-05-25',
3           8300, 'B003', '0835497615', '0835497615', 'pitchayapat.waree@gmail.com');
```

1 row(s) inserted.

6.36

The screenshot shows two windows side-by-side. On the left is a terminal window titled 'bin - mysql -u root -p - 113x58' displaying MySQL queries and their results. On the right is a browser-based 'Live SQL' interface from 'livesql.oracle.com'.

MySQL Terminal (Left):

```
| staffNo | fName | lName | position |
| SL21   | John   | White  | Manager
| SL41   | Julie  | Lee    | Assistant
2 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city
-> FROM Branch
-> WHERE city IS NOT NULL
-> UNION
-> SELECT city
-> FROM PropertyForRent
-> WHERE city IS NOT NULL;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Bristol |
| Aberdeen |
+-----+
4 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> INTERSECT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Aberdeen |
+-----+
3 rows in set (0.005 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
-> SELECT city FROM PropertyForRent;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELECT city FROM PropertyForRent' at line 3
MariaDB [dreamhome]> SELECT city FROM Branch
-> EXCEPT
-> SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| Bristol |
+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> INSERT INTO Staff
-> VALUES ('SG16', 'Alan', 'Brown', 'Assistant', 'M', Date'1957-05-25',
-> 8300, 'B003', '0835497615', '0835497615', 'pitchayapat.waree@gmail.com');
Query OK, 1 row affected (0.004 sec)

MariaDB [dreamhome]> SELECT staffNo, fName, lName,
-> position, salary, branchNo
-> FROM Staff
-> WHERE staffNo = 'SG16';
+-----+
| staffNo | fName | lName | position | salary | branchNo |
+-----+
| SG16    | Alan   | Brown  | Assistant | 8300   | B003    |
+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> INSERT INTO Staff (staffNo, fName, lName,
-> position, salary, branchNo)
-> VALUES ('SG16', 'Alan', 'Brown', 'Assistant', 'M', Date'1957-05-25',
-> 8300, 'B003', '0835497615', '0835497615', 'pitchayapat.waree@gmail.com');
Query OK, 1 row affected (0.004 sec)

MariaDB [dreamhome]> INSERT INTO Staff (staffNo, fName, lName,
-> position, salary, branchNo)
-> VALUES ('SG16', 'Anne', 'Jones',
-> 'Assistant', 8100, 'B003');
Query OK, 1 row affected (0.004 sec)

MariaDB [dreamhome]>
```

Live SQL Worksheet (Right):

```
1 v INSERT INTO Staff (staffNo, fName, lName,
2   position, salary, branchNo)
3   VALUES ('SG16', 'Alan', 'Brown', 'Assistant', 'M', Date'1957-05-25',
4           8300, 'B003', '0835497615', '0835497615', 'pitchayapat.waree@gmail.com');
```

1 row(s) inserted.

65070503428 Pitchayapat Wareevanich

6.37

The screenshot shows two windows side-by-side. On the left is a terminal window titled 'bin - mysql -u root -p -113x58' running on a Mac OS X system. It displays a query to calculate the number of properties for each staff member. The output shows results for staff members SG14, SG37, SG5, SL21, SL41, SG16, and SG44. On the right is a browser-based 'Live SQL Worksheet' from livesql.oracle.com. It contains the same SQL code, which has an error highlighted in red: 'ORA-00936: missing expression'. Below the code, a message says 'More Details: https://docs.oracle.com/error-help/db/ora-00936'.

```
bin - mysql -u root -p -113x58
| Bristol |
| Aberdeen |
4 rows in set (0.003 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
    -> INTERSECT
    ->   SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| London |
| Glasgow |
| Aberdeen |
3 rows in set (0.005 sec)

MariaDB [dreamhome]> SELECT city FROM Branch
    ->   SELECT city FROM PropertyForRent;
ERROR 1864 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELECT city FROM PropertyForRent' at line 3
MariaDB [dreamhome]> SELECT city FROM Branch
    -> EXCEPT
    ->   SELECT city FROM PropertyForRent;
+-----+
| city |
+-----+
| Bristol |
1 row in set (0.002 sec)

MariaDB [dreamhome]> INSERT INTO Staff
    ->   VALUES ('SG04', 'Alan', 'Brown', 'Assistant', 'M', Date'1957-05-25',
    ->             8300, 'B003', '0835497615', '0835497615', 'pitchayapat.waree@gmail.com');
Query OK, 1 row affected (0.004 sec)

MariaDB [dreamhome]> INSERT INTO Staff (staffNo, fName, lName, COUNT(*))
    ->   FROM Staff s, PropertyForRent p
    -> WHERE s.staffNo = p.staffNo
    -> GROUP BY s.staffNo, fName, lName, propcount
    -> UNION
    ->   SELECT staffNo, fName, lName, propcount, 0
    ->   FROM Staff
    -> WHERE staffNo NOT IN
    ->   SELECT DISTINCT staffNo
    ->   FROM PropertyForRent;
ERROR 1864 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELECT DISTINCT staffNo' at line 10
MariaDB [dreamhome]>
```

```
SQL Worksheet
1 v INSERT INTO StaffPropCount
2   SELECT s.staffNo, fName, lName, COUNT(*)
3     FROM Staff s, PropertyForRent p
4   WHERE s.staffNo = p.staffNo
5     GROUP BY s.staffNo, fName, lName, propcount
6   UNION
7   SELECT staffNo, fName, lName, propcount, 0
8     FROM Staff
9   WHERE staffNo NOT IN
10  SELECT DISTINCT staffNo
11    FROM PropertyForRent;

ORA-00936: missing expression

More Details: https://docs.oracle.com/error-help/db/ora-00936

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```

6.38

The screenshot shows two windows side-by-side. On the left is a terminal window titled 'bin - mysql -u root -p -113x58' running on a Mac OS X system. It shows an attempt to insert data into the 'StaffPropCount' table, which fails due to a syntax error. It then performs an update on the 'Staff' table, setting the salary to 1.03 times the current value. The update affects 8 rows. On the right is a browser-based 'Live SQL Worksheet' from livesql.oracle.com. It contains the same update query, which executes successfully. Below the code, a message says '8 row(s) updated.' and a table shows the updated salary values for staff members SG16, SA9, SG14, SG37, SG5, SL21, SL41, SG16, and SG44.

```
bin - mysql -u root -p -113x58
MariaDB [dreamhome]> INSERT INTO StaffPropCount
    ->   SELECT s.staffNo, fName, lName, COUNT(*)
    ->   FROM Staff s, PropertyForRent p
    -> WHERE s.staffNo = p.staffNo
    -> GROUP BY s.staffNo, fName, lName, propcount
    -> UNION
    ->   SELECT staffNo, fName, lName, propcount, 0
    ->   FROM Staff
    -> WHERE staffNo NOT IN
    ->   SELECT DISTINCT staffNo
    ->   FROM PropertyForRent;
ERROR 1864 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'SELECT DISTINCT staffNo' at line 10
MariaDB [dreamhome]> UPDATE Staff
    -> SET salary = salary*1.03;
Query OK, 8 rows affected (0.003 sec)
Rows matched: 8 Changed: 8 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary FROM staff
    -> ;
+-----+-----+
| staffNo | salary |
+-----+-----+
| SA9    | 9278  |
| SG14   | 18548 |
| SG37   | 12731 |
| SG5    | 24720 |
| SL21   | 38988 |
| SL41   | 9278  |
| SG16   | 8549  |
| SG44   | 8343  |
+-----+-----+
8 rows in set (0.002 sec)

MariaDB [dreamhome]> UPDATE Staff
    -> SET salary = salary*1.03;
Query OK, 8 rows affected (0.002 sec)
Rows matched: 8 Changed: 8 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary FROM staff
    -> ;
+-----+-----+
| staffNo | salary |
+-----+-----+
| SA9    | 9548  |
| SG14   | 19096 |
| SG37   | 12731 |
| SG5    | 25462 |
| SL21   | 31827 |
| SL41   | 8885  |
| SG16   | 8885  |
| SG44   | 8593  |
+-----+-----+
8 rows in set (0.002 sec)
```

```
SQL Worksheet
1 v UPDATE Staff
2   SET salary = salary*1.03;
3   SELECT staffNo, salary FROM staff
4

8 row(s) updated.

STAFFNO | SALARY
-----+-----
SG16   | 8805
SA9    | 9548
SG14   | 19096
SG37   | 12731
SG5    | 25462
SL21   | 31827
SL41   | 8885
SG16   | 8885
SG44   | 8593

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```

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6.39

The screenshot shows two windows side-by-side. On the left is a terminal window titled 'bin - mysql -u root -p - 113x58' showing MySQL commands and their results. On the right is a browser-based 'Live SQL Worksheet' from 'livesql.oracle.com'.

MySQL Terminal (Left):

```
bin - mysql -u root -p - 113x58
+-----+
| SG6 | 25442 |
| SL21| 31827 |
| SL41| 9548  |
| SG16| 8865  |
| SG44| 8593  |
+-----+
8 rows in set (0.000 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
Query OK, 8 rows affected (0.003 sec)
Rows matched: 8 Changed: 8 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary FROM staff
-> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE position = 'Manager';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'UPDATE Staff
SET salary = salary*1.05
WHERE position = 'Manager'' at line 2
MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff;
+-----+
| staffNo | salary | position |
+-----+
| SA9  | 9834  | Assistant |
| SG14 | 19669 | Supervisor |
| SG37 | 13113 | Assistant |
| SG5  | 26226 | Manager |
| SL21 | 32782 | Manager |
| SL41 | 9834  | Assistant |
| SG16 | 8869  | Assistant |
| SG44 | 8851  | Assistant |
+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE position = 'Manager';
Query OK, 2 rows affected (0.003 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff;
+-----+
| staffNo | salary | position |
+-----+
| SA9  | 9834  | Assistant |
| SG14 | 19669 | Supervisor |
| SG37 | 13113 | Assistant |
| SG5  | 27537 | Manager |
| SL21 | 34421 | Manager |
| SL41 | 9834  | Assistant |
| SG16 | 8869  | Assistant |
| SG44 | 8851  | Assistant |
+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet (Right):

```
1 v UPDATE Staff
2 SET salary = salary*1.05
3 WHERE position = 'Manager';
4 SELECT staffNo, salary, position FROM staff;
```

2 row(s) updated.

STAFFNO	SALARY	POSITION
SG16	8805	Assistant
SA9	9548	Assistant
SG14	19096	Supervisor
SG37	12731	Assistant
SG5	26735	Manager

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6.40

The screenshot shows two windows side-by-side. On the left is a terminal window titled 'bin - mysql -u root -p - 113x58' showing MySQL commands and their results. On the right is a browser-based 'Live SQL Worksheet' from 'livesql.oracle.com'.

MySQL Terminal (Left):

```
bin - mysql -u root -p - 113x58
+-----+
| SA9 | 9834 | Assistant |
| SG14| 19669 | Supervisor |
| SG37| 13113 | Assistant |
| SG5 | 26226 | Manager |
| SL21| 32782 | Manager |
| SL41| 9834 | Assistant |
| SG16| 8869 | Assistant |
| SG44| 8851 | Assistant |
+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE position = 'Manager';
Query OK, 2 rows affected (0.003 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff;
+-----+
| staffNo | salary | position |
+-----+
| SA9  | 9834  | Assistant |
| SG14 | 19669 | Supervisor |
| SG37 | 13113 | Assistant |
| SG5  | 27537 | Manager |
| SL21 | 34421 | Manager |
| SL41 | 9834  | Assistant |
| SG16 | 8869  | Assistant |
| SG44 | 8851  | Assistant |
+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE position = 'Manager';
Query OK, 2 rows affected (0.003 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff;
+-----+
| staffNo | salary | position |
+-----+
| SA9  | 9834  | Assistant |
| SG14 | 19669 | Supervisor |
| SG37 | 13113 | Assistant |
| SG5  | 27537 | Manager |
| SL21 | 34421 | Manager |
| SL41 | 9834  | Assistant |
| SG16 | 8869  | Assistant |
| SG44 | 8851  | Assistant |
+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET position = 'Manager', salary = 18000
-> WHERE staffNo = 'SG14';
Query OK, 1 row affected (0.005 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff WHERE staffNo = 'SG14';
+-----+
| staffNo | salary | position |
+-----+
| SG14 | 18000 | Manager |
+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> 
```

Live SQL Worksheet (Right):

```
1 v UPDATE Staff
2 SET position = 'Manager', salary = 18000
3 WHERE staffNo = 'SG14';
4 SELECT staffNo, salary, position FROM staff WHERE staffNo = 'SG14';
```

1 row(s) updated.

STAFFNO	SALARY	POSITION
SG14	18000	Manager

Download CSV

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6.41

The screenshot shows two windows side-by-side. On the left is a terminal window for MySQL (bin - mysql -u root -p - 113x58) displaying SQL commands and their results. On the right is a browser-based Oracle Live SQL worksheet.

MySQL Terminal (Left):

```
MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE position = 'Manager';
Query OK, 2 rows affected (0.005 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff;
+-----+-----+-----+
| staffNo | salary | position |
+-----+-----+-----+
| SA9     | 9834  | Assistant |
| S014    | 19669  | Supervisor |
| S037    | 13117  | Assistant |
| S05     | 27537  | Manager   |
| SL21    | 34421  | Manager   |
| SL41    | 9834  | Assistant |
| S016    | 9869  | Assistant |
| S044    | 8851  | Assistant |
+-----+-----+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE staffNo = 'S014';
Query OK, 1 row affected (0.005 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff WHERE staffNo = 'S014';
+-----+-----+-----+
| staffNo | salary | position |
+-----+-----+-----+
| S014    | 18000  | Manager  |
+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> DELETE FROM Viewing
-> WHERE propertyNo = 'PG4';
Query OK, 2 rows affected (0.005 sec)

MariaDB [dreamhome]> SELECT * FROM viewing;
+-----+-----+-----+-----+-----+-----+
| ID   | clientID | propertyNo | viewDate   | viewHour | Comment   | WishToRent |
+-----+-----+-----+-----+-----+-----+
| 2    | 2         | PA14       | 2004-07-01 00:00:00 | 11 | NULL      |             |
| 3    | 7         | PG36       | 2004-07-01 00:00:00 | 12 | NULL      |             |
| 5    | 18        | PA14       | 2004-07-02 00:00:00 | 10 | NULL      |             |
| 6    | 6         | PA14       | 2004-06-29 00:00:00 | 12 | NULL      |             |
| 7    | 6         | PA14       | 2004-06-29 00:00:00 | 10 | NULL      |             |
| 11   | 6         | PA14       | 2004-06-29 00:00:00 | 12 | NULL      |             |
| 12   | 9         | PG21       | 2004-11-22 00:00:00 | 9  | Not bad at all. |
| 13   | 9         | PG36       | 2004-11-23 00:00:00 | 9  | Kitchen too small. |
| 14   | 9         | PG16       | 2004-11-23 00:00:00 | 9  | NULL      |             |
| 15   | 24        | PG21       | 2004-11-25 00:00:00 | 11 | NULL      |             |
+-----+-----+-----+-----+-----+-----+
16 rows in set (0.002 sec)

MariaDB [dreamhome]>
```

Oracle Live SQL Worksheet (Right):

```
1 v DELETE FROM Viewing
2 WHERE propertyNo = 'PG4';
3 SELECT * FROM viewing;
```

Output:

2 row(s) deleted.

ID	CLIENTID	PROPERTYNO	VIEWDATE	VIEWHOUR	COMMENTS	WISHTORENT
2	2	PA14	01-JUL-04 12.00.00.000000	11	-	0
3	7	PG36	01-JUL-04 12.00.00.000000	12	-	0
5	10	PA14	02-JUL-04 12.00.00.000000	10	-	0

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6.42

The screenshot shows two windows side-by-side. On the left is a terminal window for MySQL (bin - mysql -u root -p - 113x58) displaying SQL commands and their results. On the right is a browser-based Oracle Live SQL worksheet.

MySQL Terminal (Left):

```
MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff;
+-----+-----+-----+
| staffNo | salary | position |
+-----+-----+-----+
| SA9     | 9834  | Assistant |
| S014    | 19669  | Supervisor |
| S037    | 13117  | Assistant |
| S05     | 27537  | Manager   |
| SL21    | 34421  | Manager   |
| SL41    | 9834  | Assistant |
| S016    | 9869  | Assistant |
| S044    | 8851  | Assistant |
+-----+-----+-----+
8 rows in set (0.001 sec)

MariaDB [dreamhome]> UPDATE Staff
-> SET salary = salary*1.05
-> WHERE staffNo = 'S014';
Query OK, 1 row affected (0.005 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dreamhome]> SELECT staffNo, salary, position FROM staff WHERE staffNo = 'S014';
+-----+-----+-----+
| staffNo | salary | position |
+-----+-----+-----+
| S014    | 18000  | Manager  |
+-----+-----+-----+
1 row in set (0.002 sec)

MariaDB [dreamhome]> DELETE FROM Viewing
-> WHERE propertyNo = 'PG4';
Query OK, 2 rows affected (0.005 sec)

MariaDB [dreamhome]> SELECT * FROM viewing;
+-----+-----+-----+-----+-----+-----+
| ID   | clientID | propertyNo | viewDate   | viewHour | Comment   | WishToRent |
+-----+-----+-----+-----+-----+-----+
| 2    | 2         | PA14       | 2004-07-01 00:00:00 | 11 | NULL      |             |
| 3    | 7         | PG36       | 2004-07-01 00:00:00 | 12 | NULL      |             |
| 5    | 18        | PA14       | 2004-07-02 00:00:00 | 10 | NULL      |             |
| 6    | 6         | PA14       | 2004-06-29 00:00:00 | 12 | NULL      |             |
| 7    | 6         | PA14       | 2004-06-29 00:00:00 | 10 | NULL      |             |
| 11   | 6         | PA14       | 2004-06-29 00:00:00 | 12 | NULL      |             |
| 12   | 9         | PG21       | 2004-11-22 00:00:00 | 9  | Not bad at all. |
| 13   | 9         | PG36       | 2004-11-23 00:00:00 | 9  | Kitchen too small. |
| 14   | 9         | PG16       | 2004-11-23 00:00:00 | 9  | NULL      |             |
| 15   | 24        | PG21       | 2004-11-25 00:00:00 | 11 | NULL      |             |
+-----+-----+-----+-----+-----+-----+
16 rows in set (0.002 sec)

MariaDB [dreamhome]> DELETE FROM Viewing;
Query OK, 16 rows affected (0.002 sec)

MariaDB [dreamhome]> SELECT * FROM viewing;
Empty set (0.001 sec)

MariaDB [dreamhome]>
```

Oracle Live SQL Worksheet (Right):

```
1 DELETE FROM Viewing;
2 SELECT * FROM viewing;
3 |
```

Output:

0 row(s) deleted.

no data found

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