



# Nombre del Trabajo:

Practica 6



**Saldaña Aguilar Gabriela**

**Materia** BASES DE DATOS

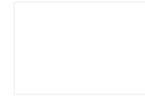
**Profesor** HERNANDEZ CONTRERAS EULER

**Grupo** 2CM10

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## MARCO TEÓRICO

MySQL Workbench es una herramienta CASE visual unificada para los arquitectos de bases de datos, desarrolladores y administradores de bases. MySQL Workbench proporciona el modelado de datos, desarrollo de SQL y herramientas completas de administración de la configuración del servidor, la administración de usuarios, copia de seguridad, y mucho más.

Modelar simplifica el diseño de bases de datos y mantenimiento, ya que permite, el arquitecto de datos, para visualizar los requisitos y resolver problemas de diseño. Diseño de base de datos basada en modelos es una metodología eficiente para la creación de bases de datos válidos y de buen rendimiento, mientras que proporciona la flexibilidad necesaria para responder a las cambiantes necesidades de datos. Los modelos se utilizan para construir los diagramas ER y bases de datos MySQL físicas.

En esta práctica se continuo con el tema ya visto de PROYECCIONES aumentando sintaxis nueva como fue DISTINCT y BETWEEN los cuales no habíamos visto en clases anteriores, con esta práctica se busca reforzar la habilidad para generar búsquedas.

## TAREAS A REALIZAR:

### 1.-

```
select empno,lastname,birthdate, salary
from employee
where salary>30000
order by lastname DESC;
```

```
mysql> select empno,lastname,birthdate, salary
-> from employee
-> where salary>30000
-> order by lastname DESC;
```

empno	lastname	birthdate	salary
000170	YOSHIMURA	1981-01-05	44680
200170	YAMAMOTO	1981-01-05	64680
200330	WONG	1971-07-18	35370
000190	WALKER	1982-06-25	50450
000020	THOMPSON	1978-02-02	94250
000060	STERN	1975-07-07	72250
200310	SPRINGER	1961-04-21	35900
000100	SPENSER	1980-12-18	86150
000250	SMITH	1969-11-12	49100
000300	SMITH	1976-10-27	37750
000310	SETRIGHT	1961-04-21	35900
000180	SCOUTTEN	1979-02-21	51340
200280	SCHWARTZ	1966-03-28	46250
000280	SCHNEIDER	1976-03-28	36250
000130	QUINTANA	1955-09-15	73800
000070	PULASKI	2003-05-26	96170
000160	PIANKA	1980-04-12	62250
000270	PEREZ	2003-05-26	37380
000290	PARKER	1985-07-09	35340
200120	ORLANDO	1972-10-18	39250
000120	O CONNELL	1972-10-18	49250
000140	NICHOLLS	1976-01-19	68420
200140	NAITZ	1976-01-19	68420
200240	MONTUEVERDE	1984-03-31	37760
000320	MEHTA	1962-08-11	39950
000240	MARINO	2002-03-31	48760
000220	LUTZ	1978-03-19	49840
000110	LUCCHESSI	1959-11-05	66500
000330	LEE	1971-07-18	45370
000030	KWAN	1971-05-11	98250
000210	JONES	2003-02-23	68270
000260	JOHNSON	1976-10-05	47250
200220	JOHN	1978-03-19	69840
000230	JEFFERSON	1980-05-30	42180
000090	HEMPERSON	1971-05-15	89750
200010	HEMMINGER	1973-08-14	46500
000010	HAAS	1963-08-24	152750
000340	GOUNOT	1956-05-17	43040
000050	GEYER	1955-09-15	80175
000200	BROWN	1971-05-29	57740
200340	ALONZO	1956-05-17	31840
000150	ADAMSON	1977-05-17	55280

42 rows in set (0.00 sec)

2.-

```
select firstnme,lastname,workdept
from employee
order by workdept DESC, lastname DESC;
```

```
mysql> select firstnme,lastname,workdept
-> from employee
-> order by workdept DESC, lastname DESC;
```

firstnme	lastname	workdept
HELENA	WONG	E21
THEODORE	SPENSER	E21
RAMLAL	MEHTA	E21
VING	LEE	E21
JASON	GOUNOT	E21
ROY	ALONZO	E21
MICHELLE	SPRINGER	E11
PHILIP	SMITH	E11
MAUDE	SETRIGHT	E11
EILEEN	SCHWARTZ	E11
EIHEL	SCHNEIDER	E11
JOHN	PARKER	E11
EILEEN	HENDERSON	E11
JOHN	GEYER	E01
DANIEL	SMITH	D21
EVA	PULASKI	D21
MARIA	PEREZ	D21
ROBERT	MONTUEVERDE	D21
SALVATORE	MARINO	D21
SYBIL	JOHNSON	D21
JAMES	JEFFERSON	D21
MASATOSHI	YOSHIMURA	D11
KIYOSHI	YAMAMOTO	D11
JAMES	WALKER	D11
IRVING	STERN	D11
MARILYN	SCOUTTEN	D11
ELIZABETH	PIANKA	D11
JENNIFER	LUTZ	D11
WILLIAM	JONES	D11
REBA	JOHN	D11
DAVID	BROWN	D11
BRUCE	ADAMSON	D11
DELORES	QUINTANA	C01
HEATHER	NICHOLLS	C01
KIM	NAITZ	C01
SALLY	KWAN	C01
MICHAEL	THOMPSON	B01
GREG	ORLANDO	A00
SEAN	O CONNELL	A00
VINCENZO	LUCCHESSI	A00
DIAN	HEMMINGER	A00
CHRISTINE	HAAS	A00

42 rows in set (0.00 sec)

### 3.-

```
select DISTINCT edlevel from employee
order by edlevel DESC;
```

```
mysql> select DISTINCT edlevel from employee
-> order by edlevel DESC;
+-----+
| edlevel |
+-----+
|      20 |
|      19 |
|      18 |
|      17 |
|      16 |
|      15 |
|      14 |
|      12 |
+-----+
8 rows in set (0.00 sec)
```

### 4.-

```
select DISTINCT empno, projno
from empproject
where empno<="000100"
order by empno;
```

```
mysql> select DISTINCT empno, projno
-> from empproject
-> where empno<="000100"
-> order by empno;
+-----+-----+
| empno | projno |
+-----+-----+
| 000010 | AD3100 |
| 000010 | MA2100 |
| 000010 | MA2110 |
| 000020 | PL2100 |
| 000030 | IF1000 |
| 000030 | IF2000 |
| 000050 | OP1000 |
| 000050 | OP2010 |
| 000070 | AD3110 |
| 000090 | OP1010 |
| 000100 | OP2010 |
+-----+-----+
11 rows in set (0.00 sec)
```

5.-

```
select lastname,salary,bonus
from employee
where sex="M ";
```

```
mysql> select lastname,salary,bonus
-> from employee
-> where sex="M ";
```

lastname	salary	bonus
THOMPSON	94250	800
GEYER	80175	800
STERN	72250	500
SPENSER	86150	500
LUCCHESI	66500	900
O CONNELL	49250	600
ADAMSON	55280	500
YOSHIMURA	44680	500
WALKER	50450	400
BROWN	57740	600
JONES	68270	400
JEFFERSON	42180	400
MARINO	48760	600
SMITH	49180	400
PARKER	35340	300
SMITH	37750	400
MEHTA	39950	400
LEE	45370	500
GOUNOT	43840	500
ORLANDO	39250	600
YAMAMOTO	64680	500
MONTEVERDE	37760	600
ALONZO	31840	500

```
23 rows in set (0.00 sec)
```

6.-

```
select lastname,salary,comm,hiredate
from employee
where salary <40000
and hiredate>"1979-12-31"
order by lastname;
```

```
mysql> select lastname,salary,comm,hiredate
-> from employee
-> where salary <40000
-> and hiredate>"1979-12-31"
-> order by lastname;
```

lastname	salary	comm	hiredate
ALONZO	31840	1907	1997-07-05
MEHTA	39950	1596	1995-07-07
MONTEVERDE	37760	2301	2004-12-05
ORLANDO	39250	2340	2002-05-05
PARKER	35340	1227	2006-05-30
PEREZ	37380	2190	2006-09-30
SCHNEIDER	36250	2100	1997-03-24
SETRIGHT	35900	1272	1994-09-12
SMITH	37750	1420	2002-06-19
SPRINGER	35900	1272	1994-09-12
WONG	35370	2030	2006-02-23

```
11 rows in set (0.00 sec)
```

7.-

```
select lastname,salary,comm,bonus
from employee
where (salary >22000
and bonus=400 )
or ( bonus=500 and comm<1900)
order by lastname;
```

```
mysql> select lastname,salary,comm,bonus
-> from employee
-> where (salary >22000
-> and bonus=400 )
-> or ( bonus=500 and comm<1900)
-> order by lastname;
+-----+-----+-----+-----+
| lastname | salary | comm | bonus |
+-----+-----+-----+-----+
| JEFFERSON | 42180 | 1774 | 400 |
| JONES | 68270 | 1462 | 400 |
| MEHTA | 39950 | 1596 | 400 |
| PIANKA | 62250 | 1780 | 400 |
| SCOUTTEN | 51340 | 1707 | 500 |
| SMITH | 49180 | 1534 | 400 |
| SMITH | 37750 | 1420 | 400 |
| WALKER | 50450 | 1636 | 400 |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

8.-

```
select projno,empno, actno, emstdate,emendate
from emmprojact
where empno like "AD%"
and actno=1080 or actno=180
order by projno,actno;
```

```
mysql> select projno,empno, actno, emstdate,emendate
-> from emmprojact
-> where empno like "AD%"
-> and actno=1080 or actno=180
-> order by projno,actno;
+-----+-----+-----+-----+-----+
| projno | empno | actno | emstdate | emendate |
+-----+-----+-----+-----+-----+
| AD3111 | 000230 | 180 | 2002-10-15 | 2003-01-01 |
| AD3112 | 000250 | 180 | 2002-08-15 | 2003-01-01 |
| AD3113 | 000260 | 180 | 2002-03-01 | 2002-04-15 |
| AD3113 | 000260 | 180 | 2002-04-15 | 2002-06-01 |
| AD3113 | 000260 | 180 | 2002-06-01 | 2002-07-01 |
| MA2112 | 000150 | 180 | 2002-07-15 | 2003-02-01 |
| MA2113 | 000210 | 180 | 2002-10-01 | 2003-02-01 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

9.-

```
select deptno,mgrno,admrdept
from department
order by mgrno;
```

```
mysql> select deptno,mgrno,admrdept
-> from department
-> order by mgrno;
+-----+-----+-----+
| deptno | mgrno | admrdept |
+-----+-----+-----+
| J22    | NULL  | E01      |
| I22    | NULL  | E01      |
| H22    | NULL  | E01      |
| D01    | NULL  | A00      |
| G22    | NULL  | E01      |
| F22    | NULL  | E01      |
| A00    | 000010 | A00      |
| B01    | 000020 | A00      |
| C01    | 000030 | A00      |
| E01    | 000050 | A00      |
| D11    | 000060 | D01      |
| D21    | 000070 | D01      |
| E11    | 000090 | E01      |
| E21    | 000100 | E01      |
+-----+-----+-----+
14 rows in set (0.00 sec)
```

10.-

```
select empno,lastname,salary,bonus
from employee
where bonus between 800
and 1000
oreder by bonus;
```

```
mysql> select empno,lastname,salary,bonus
-> from employee
-> where bonus between 800
-> and 1000
-> order by bonus;
+-----+-----+-----+-----+
| empno | lastname | salary | bonus |
+-----+-----+-----+-----+
| 000020 | THOMPSON | 94250  | 800   |
| 000030 | KWAN    | 98250  | 800   |
| 000050 | GEYER   | 80175  | 800   |
| 000110 | LUCCHESI | 66500  | 900   |
| 000010 | HAAS    | 152750 | 1000  |
| 200010 | HEMMINGER | 46500  | 1000  |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```



## 11.-

```
select empno,lastname,salary,workdept
from employee
where workdept between "A00"
and "C01"
order by empno,lastname;
```

```
mysql> select empno,lastname,salary,workdept
-> from employee
-> where workdept between "A00"
-> and "C01"
-> order by empno,lastname;
+-----+-----+-----+-----+
| empno | lastname | salary | workdept |
+-----+-----+-----+-----+
| 000010 | HAAS     | 152750 | A00      |
| 000020 | THOMPSON | 94250  | B01      |
| 000030 | KWAN     | 98250  | C01      |
| 000110 | LUCCHESI | 66500  | A00      |
| 000120 | O CONNELL | 49250  | A00      |
| 000130 | QUINTANA | 73800  | C01      |
| 000140 | NICHOLLS | 68420  | C01      |
| 200010 | HEMMINGER | 46500  | A00      |
| 200120 | ORLANDO  | 39250  | A00      |
| 200140 | NATZ     | 68420  | C01      |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

## 12.-

```
select * from project
where projname like "SUPPORT%"
order by projno;
```

```
mysql> select * from project
-> where projname like "SUPPORT%"
-> order by projno;
Empty set (0.00 sec)
```

## 13.-

```
select * from department
where deptno like "%1%"
order by deptno;
```

```
mysql> select * from department
-> where deptno like "%1%"
-> order by deptno;
+-----+-----+-----+-----+-----+
| DEPTNO | DEPTNAME          | MGRNO | ADMRDEPT | LOCATION |
+-----+-----+-----+-----+-----+
| B01    | PLANNING          | 000020 | A00      | NULL     |
| C01    | INFORMATION CENTER | 000030 | A00      | NULL     |
| D01    | DEVELOPMENT CENTER | NULL   | A00      | NULL     |
| D11    | MANUFACTURING SYSTEMS | 000060 | D01      | NULL     |
| D21    | ADMINISTRATION SYSTEMS | 000070 | D01      | NULL     |
| E01    | SUPPORT SERVICES  | 000050 | A00      | NULL     |
| E11    | OPERATIONS        | 000090 | E01      | NULL     |
| E21    | SOFTWARE SUPPORT   | 000100 | E01      | NULL     |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

## CONCLUSIONES:

En esta práctica pude realizar mejor y con menos errores mis búsquedas a pesar de la sencillez de estas, aprendí nueva sintaxis que puede ayudar a realizar una búsqueda más fácilmente y sin tantas líneas de código.

**Bibliografía:** PROFESOR EULER.