



**Universidad Autónoma del Estado de México**  
**Unidad Académica Profesional Tianguistenco**

**Ingeniería en software**

**Unidad de aprendizaje:**

**Administración de Bases de Datos**

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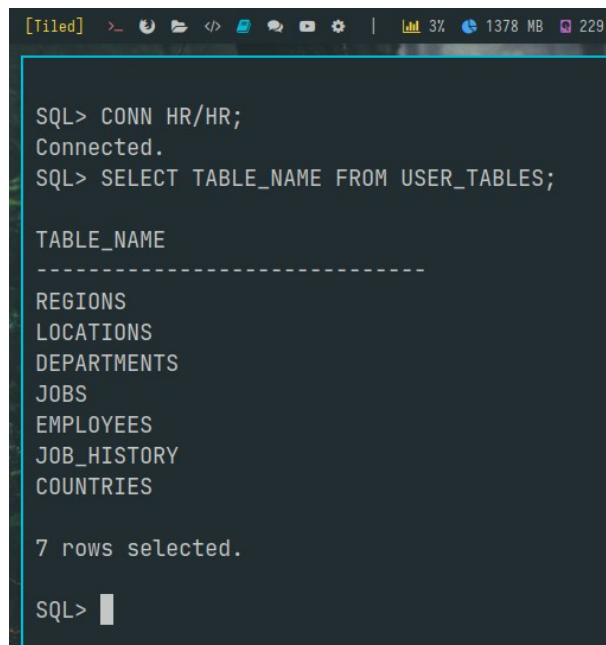
**Fecha de entrega: 07/Octubre/2023**

# Objetivo

Realizar consultas simples con el fin de identificar la estructura de las mismas y practicar con ellas un poco.

# Desarrollo

HR y sus tablas:



```
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SQL> CONN HR/HR;
Connected.
SQL> SELECT TABLE_NAME FROM USER_TABLES;

TABLE_NAME
-----
REGIONS
LOCATIONS
DEPARTMENTS
JOBS
EMPLOYEES
JOB_HISTORY
COUNTRIES

7 rows selected.

SQL> 
```

Muestra todos los Departamentos (Departments).

```
[Tiled] 1x 1452 MB 229.83 GB Grateful Saturday, 07
```

```
SQL> SELECT * FROM DEPARTMENTS;
```

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
120	Treasury		1700
130	Corporate Tax		1700
140	Control And Credit		1700
150	Shareholder Services		1700
160	Benefits		1700
170	Manufacturing		1700
180	Construction		1700

```
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```

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
120	Treasury		1700
130	Corporate Tax		1700
140	Control And Credit		1700
150	Shareholder Services		1700
160	Benefits		1700
170	Manufacturing		1700
180	Construction		1700
190	Contracting		1700
200	Operations		1700
210	IT Support		1700
220	NOC		1700

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
230	IT Helpdesk		1700
240	Government Sales		1700
250	Retail Sales		1700
260	Recruiting		1700
270	Payroll		1700

```
27 rows selected.
```

```
SQL> 
```

Muestra el primer nombre (first\_name), correo electrónico (email) y el salario (salary) de todos los empleados (Employees).

```
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SQL> SELECT FIRST_NAME, EMAIL, SALARY FROM EMPLOYEES;
```

FIRST_NAME	EMAIL	SALARY
Steven	SKING	24000
Neena	NKOCHHAR	17000
Lex	LDEHAAN	17000
Alexander	AHUNOLD	9000
Bruce	BERNST	6000
David	DAUSTIN	4800
Valli	VPATABAL	4800
Diana	DLORENTZ	4200
Nancy	NGREENBE	12008
Daniel	DFAVIET	9000
John	JCHEN	8200

FIRST_NAME	EMAIL	SALARY
Ismael	ISCIARRA	7700
Jose Manuel	JMURMAN	7800
Luis	LPOPP	6900
Den	DRAPHEAL	11000
Alexander	AKHOO	3100
Shelli	SBAIDA	2900
Sigal	STOBIAS	2800

```
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```

Randall	RPERKINS	2500
Sarah	SBELL	4000
Britney	BEVERETT	3900
Samuel	SMCCAIN	3200
Vance	VJONES	2800
Alana	AWALSH	3100
Kevin	KFEENEY	3000
Donald	DOCONNEL	2600

FIRST_NAME	EMAIL	SALARY
Douglas	DGRANT	2600
Jennifer	JWHALEN	4400
Michael	MHARTSTE	13000
Pat	PFAY	6000
Susan	SMAVRIS	6500
Hermann	HBAER	10000
Shelley	SHIGGINS	12008
William	WGIETZ	8300

107 rows selected.

```
SQL>
```

Muestra el título (job\_title) y el salario mínimo (min\_salary) de todos los trabajos (Jobs)

```
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SQL> !clear

SQL> SELECT JOB_TITLE, MIN_SALARY FROM JOBS;

JOB_TITLE                                MIN_SALARY
-----
President                                20080
Administration Vice President            15000
Administration Assistant                 3000
Finance Manager                         8200
Accountant                              4200
Accounting Manager                      8200
Public Accountant                       4200
Sales Manager                           10000
Sales Representative                     6000
Purchasing Manager                      8000
Purchasing Clerk                        2500

JOB_TITLE                                MIN_SALARY
-----
Stock Manager                           5500
Stock Clerk                             2008
Shipping Clerk                           2500
```

```
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Finance Manager                         8200
Accountant                              4200
Accounting Manager                      8200
Public Accountant                       4200
Sales Manager                           10000
Sales Representative                     6000
Purchasing Manager                      8000
Purchasing Clerk                        2500

JOB_TITLE                                MIN_SALARY
-----
Stock Manager                           5500
Stock Clerk                             2008
Shipping Clerk                           2500
Programmer                              4000
Marketing Manager                       9000
Marketing Representative                 4000
Human Resources Representative           4000
Public Relations Representative          4500

19 rows selected.

SQL> █
```

Muestra el título (job\_title) y el salario máximo (max\_salary) de todos los trabajos (Jobs), cuyo salario mínimo (min\_salary), sea mayor o igual 6000 pesos.

```
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SQL> SELECT JOB_TITLE, MAX_SALARY FROM JOBS WHERE MIN_SALARY >= 6000;

JOB_TITLE                                MAX_SALARY
-----
President                                40000
Administration Vice President            30000
Finance Manager                         16000
Accounting Manager                     16000
Sales Manager                          20000
Sales Representative                    12000
Purchasing Manager                    15000
Marketing Manager                     15000

8 rows selected.

SQL>
```

COMPROBACIÓN:

```
SQL> SELECT JOB_TITLE, MAX_SALARY, MIN_SALARY FROM JOBS WHERE MIN_SALARY >= 6000;

JOB_TITLE                                MAX_SALARY MIN_SALARY
-----
President                                40000      20000
Administration Vice President            30000      15000
Finance Manager                         16000       8200
Accounting Manager                     16000       8200
Sales Manager                          20000     10000
Sales Representative                    12000       6000
Purchasing Manager                    15000       8000
Marketing Manager                     15000       9000

8 rows selected.

SQL>
```

Muestra el (el primer nombre) firstname y el salario (salary) de los empleados (employees) cuyo salario (salary) se encuentre entre 9000 y 11000 pesos.

```
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SQL> SELECT FIRST_NAME, SALARY FROM EMPLOYEES WHERE SALARY >= 9000 AND SALARY <= 11000;

FIRST_NAME          SALARY
-----
Alexander           9000
Daniel              9000
Den                 11000
Gerald              11000
Eleni               10500
Peter               10000
David               9500
Peter               9000
Janette             10000
Patrick             9500
Allan               9000

FIRST_NAME          SALARY
-----
Clara               10500
Danielle            9500
Harrison            10000
Tayler              9600
```

```
Tayler              9600
Ellen               11000
Hermann             10000

17 rows selected.

SQL> 
```

Compruebe si existe un país (countries) denominado (country\_name) Italy.

```
[Tiled] >_ 4% 2141 MB 229.82 GB Grateful Saturday, 07 Oct

SQL> SELECT COUNTRY_NAME FROM COUNTRIES WHERE COUNTRY_NAME='Italy';

COUNTRY_NAME
-----
Italy

SQL> 
```

Muestre el nombre de todos los países (country\_name) que estén registrados que no sea Israel.

```
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SQL> SELECT COUNTRY_NAME FROM COUNTRIES WHERE COUNTRY_NAME != 'Israel';

COUNTRY_NAME
-----
Argentina
Australia
Belgium
Brazil
Canada
Switzerland
China
Germany
Denmark
Egypt
France

COUNTRY_NAME
-----
India
Italy
Japan
Kuwait
Malaysia

Malaysia
Mexico
Nigeria
Netherlands
Singapore
United Kingdom
United States of America

COUNTRY_NAME
-----
Zambia
Zimbabwe

24 rows selected.

SQL>
```

Muestre el nombre (department\_name) y la localización (location\_id) de todos los departamentos (Departments), cuya localización sea igual a 1400 o 1800 en una misma consulta.

```
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SQL> SELECT DEPARTMENT_NAME, LOCATION_ID FROM DEPARTMENTS WHERE LOCATION_ID = 1400 OR LOCATION_ID = 1800;

DEPARTMENT_NAME      LOCATION_ID
-----
IT                    1400
Marketing              1800

SQL>
```



Muestra el id de empleado (employee\_id), fecha de inicio (start\_date) y la fecha de término (end\_date) de todos los historiales de trabajo (job\_history), cuya fecha de termina haya sido antes del 31/12/2007.

```
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SQL> SELECT EMPLOYEE_ID, START_DATE, END_DATE FROM JOB_HISTORY WHERE END_DATE < TO_DATE('31-12-2007', 'DD-MM-YYY');

EMPLOYEE_ID START_DAT END_DATE
-----
101 21-SEP-97 27-OCT-01
101 28-OCT-01 15-MAR-05
102 13-JAN-01 24-JUL-06
176 24-MAR-06 31-DEC-06
200 17-SEP-95 17-JUN-01
200 01-JUL-02 31-DEC-06
201 17-FEB-04 19-DEC-07

7 rows selected.

SQL>
```

Muestre todos los departamentos (Departments) que carezcan de manager (manager\_id)

```
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SQL> SELECT * FROM DEPARTMENTS WHERE MANAGER_ID IS NULL;

DEPARTMENT_ID DEPARTMENT_NAME MANAGER_ID LOCATION_ID
-----
120 Treasury 1700
130 Corporate Tax 1700
140 Control And Credit 1700
150 Shareholder Services 1700
160 Benefits 1700
170 Manufacturing 1700
180 Construction 1700
190 Contracting 1700
200 Operations 1700
210 IT Support 1700
220 NOC 1700

DEPARTMENT_ID DEPARTMENT_NAME MANAGER_ID LOCATION_ID
-----
230 IT Helpdesk 1700
240 Government Sales 1700
250 Retail Sales 1700
260 Recruiting 1700
270 Payroll 1700

270 Payroll 1700

16 rows selected.

SQL>
```

# Conclusiones

La parte más sencilla de utilizar una BDD es realizar consultas, ésto siempre y cuando se conozca la estructura del esquema, conocimiento que podemos también adquirir gracias a las consultas