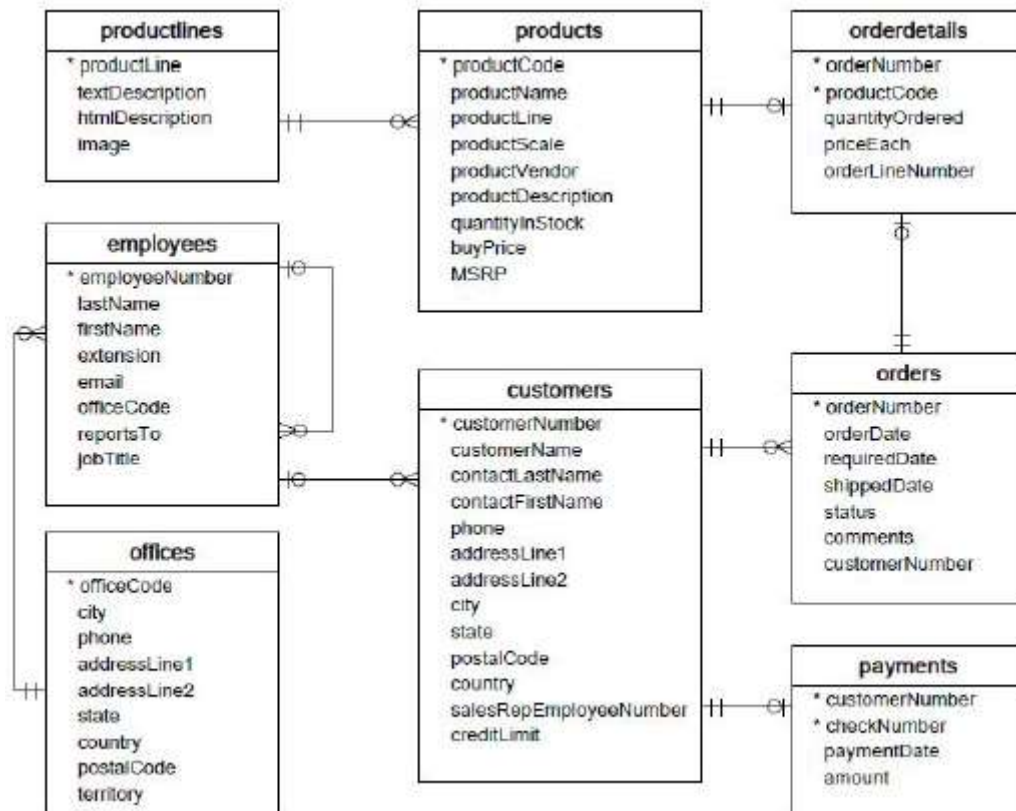


Consultas SQL; CLASSICMODELS:



1. Mostrar los datos de todos los clientes (customers) y de los empleados (employees) que tienen asignados. En caso de que haya algún cliente que no tenga ningún empleado asignado también deberemos obtener los datos de los clientes:

```

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

Resultado #1 (122r x 21c) offices (7r x 3c)						
customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2
103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Royale	(NULL)
112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.	(NULL)
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555	636 St Kilda Road	Level 3
119	La Rochelle Gifts	Labruno	Janine	40.67.8555	67, rue des Cinquante Otages	(NULL)
121	Baane Mini Imports	Bergulfsen	Jonas	07-98 9555	Erling Skakkes gate 78	(NULL)
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 Strong St.	(NULL)
125	Havel & Zbyszek Co	Piestrzeniewicz	Zbyszek	(26) 642-7555	ul. Filtrów 68	(NULL)
128	Blauer See Auto, Co.	Keitel	Roland	+49 69 66 90 2555	Lyonerstr. 34	(NULL)
130	Mini Gifts Co.	Murphy	Sally	6505555703	5553 North Road, Seattle	(NULL)

2. Mostrar el número de empleados (employees) por oficina (office) de mayor a menor. Para la oficina basta con mostrar el código y la ciudad (city) en la que está situada:

```
SELECT offices.officeCode, offices.city, COUNT(*) AS 'Número de Empleados:'
FROM offices
INNER JOIN employees ON offices.officeCode = employees.officeCode
INNER JOIN customers ON employees.employeeNumber =
customers.salesRepEmployeeNumber
GROUP BY offices.officeCode, offices.city;
```

officeCode	city	Número de Empleados:
1	San Francisco	12
2	Boston	12
3	NYC	15
4	Paris	29
5	Tokyo	5
6	Sydney	10
7	London	17

3. Mostrar los datos de los clientes (customers) y la media de los pagos (payments) que han realizado cada uno de ellos. Debes considerar el campo amount para la media. La media debe tener 2 decimales:

```
SELECT customers.*, ROUND(AVG(payments.amount), 2)
FROM customers
INNER JOIN payments ON customers.customerNumber =
payments.customerNumber
GROUP BY customers.customerNumber;
```

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditRating
103	Atelier graphique	Schmitt	Carline	40.32.2355	54, rue Royale	(NULL)	Nantes	(NULL)	44000	France		1.370
112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.	(NULL)	Las Vegas	NV	89030	USA		1.166
114	Australian Collectors, Co.	Fergusson	Peter	03 9520 4555	636 St Kilda Road	Level 3	Melbourne	Victoria	3004	Australia		1.611
119	La Rochelle Gifts	LeBlond	Jeanne	40.87.8555	87, rue de Cinquante Otages	(NULL)	Nantes	(NULL)	44000	France		1.370
121	Baane Mini Imports	Bergulund	Josias	07-89 9555	Erling Skakkes gate 78	(NULL)	Stavenn	(NULL)	4110	Norway		1.504
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 Strong St.	(NULL)	San Rafael	CA	97562	USA		1.165
128	Blauer See Auto, Co.	Kittel	Roland	+49 69 66 90 2555	Lyonenstr. 34	(NULL)	Frankfurt	(NULL)	60528	Germany		1.504
129	Mini Wheels Co.	Murphy	Julie	6505553787	5557 North Pendale Street	(NULL)	San Francisco	CA	94217	USA		1.165
131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport Avenue	(NULL)	NYC	NY	10022	USA		1.323
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/ Morabazal, 86	(NULL)	Madrid	(NULL)	28034	Spain		1.370
144	Volvo Model Replicas, Co	Berglund	Christina	0921-12 3555	Bergsvägen 8	(NULL)	Luleå	(NULL)	S-958 22	Sweden		1.504
145	Danish Wholesale Imports	Petersen	Jytte	31 12 3555	Vindbæthet 34	(NULL)	Kobenhavn	(NULL)	1734	Denmark		1.401
146	Saveley & Henriot, Co.	Saveley	Mary	78.32.5555	2, rue du Commerce	(NULL)	Lyon	(NULL)	69004	France		1.337
148	Dragon Souvenirs, Ltd.	Natividad	Eric	+65 221 7555	Bronz Sok.	Bronz Apt. 3/6 Tiesvikiye	Singapore	(NULL)	079903	Singapore		1.621
151	Muscle Machine Inc	Young	Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY	10022	USA		1.286
157	Diecast Classics Inc.	Leong	Kalvin	2155551555	7508 Pompton St.	(NULL)	Allentown	PA	70267	USA		1.216
161	Technics Store Inc.	Haskimoto	Juri	6505558009	9400 Furth Circle	(NULL)	Burlingame	CA	94217	USA		1.165
166	Handji Gifts Co	Victorino	Wendy	+65 234 1555	106 Linden Road Sandown	2nd Floor	Singapore	(NULL)	066045	Singapore		1.612
167	Herikku Gifts	Oestran	Vegard	+47 2267 3215	Brehmen St. 121	PR 334 Sentrum	Bergen	(NULL)	N 5504	Norway		1.504
171	Daedalus Designs Imports	Rancé	Martine	20.16.1555	184, chaussée de Tournai	(NULL)	Lille	(NULL)	59000	France		1.370
172	La Corne D'abondance, Co.	Bertrand	Marie	(1) 42.34.2555	265, boulevard Charonne	(NULL)	Paris	(NULL)	75012	France		1.337

4. Mostrar los clientes (customers) que no han realizado ningún pago (payments):

```
SELECT customers.*, payments.*
FROM customers
LEFT JOIN payments ON customers.customerNumber =
payments.customerNumber
WHERE payments.customerNumber IS NULL;
```

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
125	Harley B. Zykovsk Co.	Piotrowski	Zykovsk	(562) 642-7835	41 Fibronia St.	(NULL)	Warsaw	(NULL)	01-012	Poland	(NULL)	0.00
168	Amelican Souveniers Inc.	Francis	Kahn	(303)557-9451	148 Spindrift Dr.	(NULL)	New Haven	CT	07023	USA	1288	0.00
169	Porto Imports Co.	de Castro	Isabel	(1) 356-5555	Estrada da saudade n. 58	(NULL)	Lisbon	(NULL)	1796	Portugal	(NULL)	0.00
206	Asian Shopping Network, Co.	Walker	Brady	+612 9411 1335	Suntec Tower Three	8 Temasek	Singapore	(NULL)	038888	Singapore	(NULL)	0.00
223	Naturlich Autos	Klaus	Horst	(072) 359188	Tuchentstraße 10	(NULL)	Constance	(NULL)	87307	Germany	(NULL)	0.00
237	Alfred Bauhaus	Carsten	Algenste	(091) 356 4600	Giese-Pl. 1	(NULL)	Munich	(NULL)	20003	Spain	(NULL)	0.00
247	Messner Shopping Network	Messner	Karsten	089-0559964	Messnerweg 7	(NULL)	Frankfurt	(NULL)	60528	Germany	(NULL)	0.00
273	Franken Gifts, Co.	Franken	Peter	089-0877933	Reichen Platz 43	(NULL)	Munich	(NULL)	80385	Germany	(NULL)	0.00
293	ROSE Collectables	Hopstein	Ed	+41 20 423 78 01	Rte des Jeunes 41	(NULL)	Fribourg	(NULL)	1700	Switzerland	(NULL)	0.00
303	Schuyler Imports	Schuyler	Bradley	+31 20 481 8533	Kingsfordweg 151	(NULL)	Amsterdam	(NULL)	1043 GR	Netherlands	(NULL)	0.00
307	Die Hand Imports	Andreas	Mal	030-4074033	Chiese Str. 57	(NULL)	Berlin	(NULL)	12209	Germany	(NULL)	0.00
336	Cosmo Specialties Ltd.	Cosmo	Philip	0153-09933	Mauldons Rd	(NULL)	Bundesburg	(NULL)	14774	Germany	(NULL)	0.00
348	Asian Treasures, Inc.	McKenzie	Patricia	2987 355	8 Johnsons Road	(NULL)	Cork	(NULL)	(NULL)	Ireland	(NULL)	0.00
356	SAR Distributors, Co.	Kuper	Armand	+27 21 590 3355	1250 Pretorius Street	(NULL)	Hartfield	(NULL)	0038	South Africa	(NULL)	0.00
361	Kleinmanns Auto	Joseph	Klein	(023) 252529	Luxemburg 48	(NULL)	Munster	(NULL)	44097	Germany	(NULL)	0.00
369	Lobos Souveniers, Inc.	Rodriguez	Luis	(1) 354-2335	Avda. das Flores n. 32	(NULL)	Lisbon	(NULL)	1675	Portugal	(NULL)	0.00
376	Precision Collectables	Uli	Brown	0453-076033	Hauptstr. 29	(NULL)	Bern	(NULL)	3012	Switzerland	1762	0.00
409	Hattingt Collectable Exchange	Müller	Rita	0711-33361	Adenauerstr. 900	(NULL)	Düsseldorf	(NULL)	70563	Germany	(NULL)	0.00
443	Fleur Collecte Steins, Inc.	Fleur	Alexander	0342-330736	Hennin 22	(NULL)	Leipzig	(NULL)	04176	Germany	(NULL)	0.00
459	Wadding Exchange	Ottob	Sven	0241-039123	Waldweg 21	(NULL)	Aachen	(NULL)	52096	Germany	(NULL)	0.00
465	Artisan Designs, Ltd.	Artisan	Carmen	+34 913 720355	c/ Golekias, 19-1 Urb. La Florida	(NULL)	Madrid	(NULL)	28023	Spain	(NULL)	0.00
477	MIR Souveniers B. Co.	Mirco	Herrero	(601) 00001	Fontvieille 37	(NULL)	Monsieur	(NULL)	60106	Germany	(NULL)	0.00

5. Mostrar el coche más caro que se ha vendido (products). Considera priceEach como el precio de venta. Muestra además del nombre del coche, el beneficio que ha tenido la empresa en dicha venta:

```
SELECT MAX(orderdetails.priceEach), products.productName,
orderdetails.priceEach - products.buyPrice AS 'Beneficio:'
FROM products
INNER JOIN orderdetails ON products.productCode =
orderdetails.productCode
```

products (1r x 3c)	productCode	productName	Beneficio:
MAX(orderdetails.priceEach)	214,30	1969 Harley Davidson Ultimate Chopper	32,54

6. Mostrar los datos de los pedidos (orders) realizados por clientes (customers) que estén atendidos por empleados (employees) de la oficina (offices) de París:

```
SELECT orders.*
FROM orders
INNER JOIN customers ON orders.customerNumber =
customers.customerNumber
INNER JOIN employees ON customers.salesRepEmployeeNumber =
employees.employeeNumber
INNER JOIN offices ON employees.officeCode = offices.officeCode
WHERE offices.city LIKE 'Paris';
```

orderNumber	orderDate	requiredDate	shippedDate	status	comments	customerNumber
10194	2003-11-25	2003-12-02	2003-11-26	Shipped	(NULL)	146
10208	2004-01-02	2004-01-11	2004-01-04	Shipped	(NULL)	146
10227	2004-03-02	2004-03-12	2004-03-08	Shipped	(NULL)	146
10114	2003-04-01	2003-04-07	2003-04-02	Shipped	(NULL)	172
10286	2004-08-28	2004-09-06	2004-09-01	Shipped	(NULL)	172
10336	2004-11-20	2004-11-26	2004-11-24	Shipped	Customer requested that DHL is used for this shipping	172
10134	2003-07-01	2003-07-10	2003-07-05	Shipped	(NULL)	250
10356	2004-12-09	2004-12-15	2004-12-12	Shipped	(NULL)	250
10395	2005-03-17	2005-03-24	2005-03-23	Shipped	We must be cautious with this customer. Their VP of...	250
10122	2003-05-08	2003-05-16	2003-05-13	Shipped	(NULL)	350
10344	2004-11-25	2004-12-02	2004-11-29	Shipped	(NULL)	350
10364	2005-01-06	2005-01-17	2005-01-09	Shipped	(NULL)	350
10121	2003-05-07	2003-05-13	2003-05-13	Shipped	(NULL)	353
10137	2003-07-10	2003-07-20	2003-07-14	Shipped	(NULL)	353
10343	2004-11-24	2004-12-01	2004-11-26	Shipped	(NULL)	353
10359	2004-12-15	2004-12-23	2004-12-18	Shipped	(NULL)	353
10398	2005-03-30	2005-04-09	2005-03-31	Shipped	(NULL)	353
10211	2004-01-15	2004-01-25	2004-01-18	Shipped	(NULL)	406
10252	2004-05-26	2004-06-04	2004-05-29	Shipped	(NULL)	406
10402	2005-04-07	2005-04-14	2005-04-12	Shipped	(NULL)	406
10123	2003-05-20	2003-05-29	2003-05-22	Shipped	(NULL)	103
10298	2004-09-27	2004-10-05	2004-10-01	Shipped	(NULL)	103
10345	2004-11-24	2004-12-01	2004-11-26	Shipped	(NULL)	103

7. Mostrar el total (usar el priceEach como el precio de venta) de cada pedido (orders) del año 2004. Se deberá añadir el símbolo \$ al final del coste:

```
SELECT orderdetails.orderNumber, CONCAT(orderdetails.priceEach, '$'),
orders.orderDate
FROM orderdetails
INNER JOIN orders ON orderdetails.orderNumber = orders.orderNumber
WHERE YEAR(orders.orderDate) = 2004
GROUP BY orderdetails.orderNumber;
```

orderNumber	CONCAT(orderdetails.priceEach, '\$')	orderDate
10.208	176.63\$	2004-01-02
10.209	129.20\$	2004-01-09
10.210	112.99\$	2004-01-12
10.211	90.92\$	2004-01-15
10.212	99.82\$	2004-01-16
10.213	84.67\$	2004-01-22
10.214	166.60\$	2004-01-26
10.215	205.73\$	2004-01-29
10.216	133.94\$	2004-02-02
10.217	132.97\$	2004-02-04
10.218	110.46\$	2004-02-09
10.219	94.80\$	2004-02-10
10.220	189.10\$	2004-02-12
10.221	133.86\$	2004-02-18
10.222	133.28\$	2004-02-19
10.223	80.39\$	2004-02-20
10.224	141.58\$	2004-02-21
10.225	157.60\$	2004-02-22
10.226	108.26\$	2004-02-26
10.227	85.27\$	2004-03-02
10.228	214.30\$	2004-03-10
10.229	138.88\$	2004-03-11

8. Mostrar el mes (en letras), año y la cantidad de pedidos que ha habido cada mes desde Enero del 2003 hasta Diciembre de 2005 (considerar el campo orderDate). Ordenar cronológicamente:

```
SELECT MONTHNAME(orders.orderDate) AS 'MES:', YEAR(orders.orderDate)
AS 'AÑO:', COUNT(*) AS 'CANTIDAD DE PEDIDOS:'
FROM orders
WHERE YEAR(orders.orderDate) BETWEEN 2003 AND 2005
GROUP BY MONTH(orders.orderDate), MONTHNAME(orders.orderDate),
YEAR(orders.orderDate)
ORDER BY YEAR(orders.orderDate), MONTH(orders.orderDate) ASC;
```

MES:	AÑO:	CANTIDAD DE PEDIDOS:
January	2.003	5
February	2.003	3
March	2.003	6
April	2.003	7
May	2.003	6
June	2.003	7
July	2.003	7
August	2.003	5
September	2.003	8
October	2.003	18
November	2.003	30
December	2.003	9
January	2.004	8
February	2.004	11

9. Muestra el apellido (lastName) del empleado (employees) que ha participado en más pedidos (orders). Se entiende que un empleado participa en un pedido si lo hace un cliente (customer) que tiene a su cargo. En caso de empate deben salir todos los empleados empatados en cabeza. (No usar limit):

```
SELECT employees.employeeNumber, employees.lastName, COUNT(*)
FROM orders
JOIN customers ON orders.customerNumber = customers.customerNumber
JOIN employees ON employees.employeeNumber =
customers.salesRepEmployeeNumber
GROUP BY employees.employeeNumber, employees.lastName
HAVING COUNT(*) >= ALL (
SELECT COUNT(*)
FROM orders
JOIN customers ON orders.customerNumber = customers.customerNumber
JOIN employees ON employees.employeeNumber =
customers.salesRepEmployeeNumber
GROUP BY employees.employeeNumber, employees.lastName
);
```

employees (1r x 3c)		
employeeNumber	lastName	COUNT(*)
1.370	Hernandez	43

10. Hallar la diferencia entre el product (products) más caro y el más barato. Considerar que los precios (buyprice) se encuentran en miles de dólares, por lo que el resultado hay que multiplicarlo por 1000. La columna se llamará Diferencia y tendrá un \$ al final:

```
SELECT CONCAT((MAX(products.buyPrice) - MIN(products.buyPrice)) *
1000, ' $') AS 'Diferencia'
FROM products;
```

products (1r x 1c)	
Diferencia	
87510.00	\$

11. Muestra cuántos empleados tiene cada jefe (lastName) a su cargo.

Usa el campo reportsTo:

```
SELECT employees.lastName, employees.reportsTo, COUNT(*)
FROM employees
GROUP BY employees.reportsTo;
```

employees (7r x 3c)		
lastName	reportsTo	COUNT(*)
Murphy	(NULL)	1
Patterson	1.002	2
Patterson	1.056	4
Fixter	1.088	3
Bondur	1.102	6
Jennings	1.143	6
Kato	1.621	1

12. Añade el campo birthdate (fecha de nacimiento) a la tabla de empleados (employees) y haz que todos los empleados tengan el 01/01/2000 en dicho campo. Puedes usar varias sentencias sql si lo ves necesario:

```
ALTER TABLE `employees` ADD COLUMN `birthdate` DATE NULL DEFAULT '2000-01-01' AFTER `jobTitle`;
```

employeeNumber	lastName	firstName	extension	email	officeCode	reportsTo	jobTitle	birthdate
1.002	Murphy	Diane	x5800	dmurphy@classicmodelcars.com	1		President	2000-01-01
1.056	Patterson	Mary	x4611	mpatterso@classicmodelcars.com	1	1.002	VP Sales	2000-01-01
1.076	Firrelli	Jeff	x9273	jfirrelli@classicmodelcars.com	1	1.002	VP Marketing	2000-01-01
1.088	Patterson	William	x4871	wpatterson@classicmodelcars.com	6	1.056	Sales Manager (APAC)	2000-01-01
1.102	Bondur	Gerard	x5408	gbondur@classicmodelcars.com	4	1.056	Sale Manager (EMEA)	2000-01-01
1.143	Bow	Anthony	x5428	abow@classicmodelcars.com	1	1.056	Sales Manager (NA)	2000-01-01
1.165	Jennings	Leslie	x3291	ljennings@classicmodelcars.com	1	1.143	Sales Rep	2000-01-01
1.166	Thompson	Leslie	x4065	lthompson@classicmodelcars.com	1	1.143	Sales Rep	2000-01-01
1.188	Firrelli	Julie	x2173	jfirrelli@classicmodelcars.com	2	1.143	Sales Rep	2000-01-01
1.216	Patterson	Steve	x4334	spatterson@classicmodelcars.com	2	1.143	Sales Rep	2000-01-01
1.286	Tseng	Foon Yue	x2248	ftseng@classicmodelcars.com	3	1.143	Sales Rep	2000-01-01
1.323	Vanauf	George	x4102	gvanauf@classicmodelcars.com	3	1.143	Sales Rep	2000-01-01
1.337	Bondur	Loui	x6493	lbondur@classicmodelcars.com	4	1.102	Sales Rep	2000-01-01
1.370	Hernandez	Gerard	x2028	ghernande@classicmodelcars.com	4	1.102	Sales Rep	2000-01-01
1.401	Castillo	Pamela	x2759	pcastillo@classicmodelcars.com	4	1.102	Sales Rep	2000-01-01
1.501	Bott	Larry	x2311	lbott@classicmodelcars.com	7	1.102	Sales Rep	2000-01-01
1.504	Jones	Barry	x102	bjones@classicmodelcars.com	7	1.102	Sales Rep	2000-01-01
1.611	Fixter	Andy	x101	afixter@classicmodelcars.com	6	1.088	Sales Rep	2000-01-01
1.612	Marsh	Peter	x102	pmarsh@classicmodelcars.com	6	1.088	Sales Rep	2000-01-01
1.619	King	Tom	x103	tking@classicmodelcars.com	6	1.088	Sales Rep	2000-01-01
1.621	Nishi	Mami	x101	mnishi@classicmodelcars.com	5	1.056	Sales Rep	2000-01-01
1.625	Kato	Yoshimi	x102	ykato@classicmodelcars.com	5	1.621	Sales Rep	2000-01-01
1.702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1.102	Sales Rep	2000-01-01