

Trabajo Práctico

Materia: Base de Datos

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Curso: 2do 1era TM

Tema: TP Integrador

Ciclo Lectivo: 2024

```
create database TrabajoIntegrador;
```

```
use TrabajoIntegrador;
```

```
create table pedidos(  
  num_pedido int not null ,  
  fecha_pedido date not null,  
  clie integer not null,  
  rep integer,  
  fab char (3) not null,  
  producto char (5) not null,  
  cant integer not null,  
  importe float not null,  
  primary key (num_pedido));
```

```
create table oficinas  
(  
  oficina integer not null,  
  ciudad varchar (15) not null,  
  region varchar (10) not null,  
  dir integer,  
  objetivo float,  
  ventas float not null,  
  primary key (oficina));
```

```
create table clientes  
(  
  num_clie integer not null,  
  empresa varchar (20) not null,  
  rep_clie integer,  
  limite_credito float,  
  primary key (num_clie));
```

```
create table rep_ventas
(num_empl integer not null,
name varchar (15) not null,
edad integer,
oficina_rep integer,
titulo varchar (10),
contrato date not null,
director integer,
cuota float,
ventas float not null,
primary key (num_empl));
```

```
create table productos
(id_fab char (3) not null,
id_producto char (5) not null,
descripcion varchar (20) not null,
precio float not null,
existencias integer not null,
primary key (id_fab, id_producto));
```

```
alter table pedidos add constraint foreign key(clie) references clientes (num_clie); /*no*/
```

```
alter table pedidos add constraint foreign key(rep) references rep_ventas (num_empl);
```

```
alter table pedidos add constraint foreign key(fab, producto) references productos (id_fab,
id_producto);/*no*/
```

```
alter table oficinas add constraint foreign key(dir) references rep_ventas (num_empl);
```

```
alter table clientes add constraint foreign key (rep_clie) references rep_ventas (num_empl);
```

```
alter table rep_ventas add constraint foreign key (director) references rep_ventas  
(num_empl);/*no*/
```

```
alter table rep_ventas add constraint foreign key (oficina_rep) references oficinas (oficina);
```

```
insert into pedidos values
```

```
(1, "1989-12-17", 2117, 106, "REI", "2A44L", 7, 31500),  
(2, "1990-01-11", 2111, 105, "ACI", "41003", 35, 3745),  
(3, "1990-01-03", 2101, 106, "FEA", "114", 6, 1458),  
(4, "1990-02-10", 2118, 108, "QSA", "K47", 4, 1420),  
(5, "1989-10-12", 2102, 101, "ACI", "41004", 34, 3978),  
(6, "1990-01-30", 2107, 110, "ACI", "4100Z", 9, 22500),  
(7, "1990-02-02", 2112, 108, "REI", "2A44R", 10, 45000),  
(8, "1989-12-17", 2103, 105, "ACI", "41004", 28, 3276),  
(9, "1990-01-14", 2118, 108, "BIC", "41003", 1, 652),  
(10, "1990-02-23", 2108, 109, "FEA", "112", 10, 1480),  
(11, "1990-01-08", 2124, 107, "BIC", "41003", 1, 652),  
(12, "1989-12-27", 2103, 105, "ACI", "41004", 6, 702),  
(13, "1990-01-20", 2114, 108, "QSA", "XK47", 20, 7100),  
(14, "1990-02-24", 2124, 107, "FEA", "114", 10, 2430),  
(15, "1989-10-12", 2114, 102, "ACI", "4100Z", 6, 15000),  
(16, "1990-01-22", 2103, 105, "ACI", "41002", 54, 4104),  
(17, "1990-01-08", 2112, 108, "IMM", "773C", 3, 2925),  
(18, "1990-03-02", 2109, 107, "IMM", "775C", 22, 31350),  
(19, "1990-01-29", 2107, 110, "REI", "2A45C", 8, 632),  
(20, "1989-11-04", 2118, 108, "ACI", "41002", 10, 760),  
(21, "1989-10-12", 2111, 103, "REI", "2A44G", 6, 2100),  
(22, "1998-02-15", 2108, 101, "ACI", "4100X", 6, 150),
```

(23, "1990-02-10", 2120, 102, "IMM", "779C", 2, 3750),
(24, "1989-01-04", 2106, 102, "REI", "2A45C", 24, 1896),
(25, "1990-02-27", 2106, 102, "QSA", "XK47", 6, 2130),
(26, "1990-01-25", 2108, 109, "IMM", "779C", 3, 5625),
(27, "1990-02-10", 2118, 108, "QSA", "XK47", 2, 776),
(28, "1989-12-31", 2103, 105, "ACI", "4100Y", 11, 27500),
(29, "1990-02-18", 2111, 103, "ACI", "4100X", 24, 600),
(30, "1990-02-02", 2113, 101, "REI", "2A44R", 5, 22500);

INSERT INTO oficinas VALUES

(22, 'Denver', 'Oeste', 108, 300000.00, 186042.00),
(11, 'New York', 'Este', 106, 575000.00, 692637.00),
(12, 'Chicago', 'Este', 104, 800000.00, 735042.00),
(13, 'Atlanta', 'Este', 105, 350000.00, 367911.00),
(21, 'Los Angeles', 'Oeste', 108, 725000.00, 835915.00);

INSERT INTO Productos (ID_FAB, ID_PRODUCTO, DESCRIPCION, PRECIO, EXISTENCIAS) VALUES

('REI', '2A45C', 'V Stago Tiruquete', 79, 210),
('ASI', '4100Y', 'Extractor', 2750, 25),
('QSA', 'XK47', 'Plate', 870, 38),
('BIC', '4167Z', 'Riostra 2-Tm', 180, 9),
('IMM', '779C', 'Articulo tipo 3', 107, 207),
('ACI', '41003', 'Riostra 2-Tm', 315, 4),
('IMM', '41004', 'Articulo tipo 4', 117, 237),
('BIC', '887P', 'Manivela', 652, 32),
('IMC', '41007', 'Perno Riostra', 95, 219),
('QSA', 'XK48', 'Reductor', 1330, 16),

('REI', '2A44L', 'Bisagra Izqda.', 745, 44),
 ('FEA', '112', 'Cubierta', 148, 62),
 ('IMM', '887H', 'Soporte Riostra', 75, 22),
 ('IMM', '887R', 'Reten', 45, 13),
 ('ASI', '41001', 'Articulo Tipo 1', 1, 15),
 ('IMM', '775C', 'Riostra 1-Tm', 204, 8),
 ('ACI', '4100Z', 'Montador', 252, 95),
 ('QSA', 'XK48A', 'Reductor', 475, 5),
 ('ACI', '41002', 'Articulo Tipo 2', 3610, 16),
 ('REI', '2A44R', 'Bisagra Dcha.', 156, 7),
 ('IMM', '773C', 'Riostra 1/2-Tm', 975, 17),
 ('IMM', '4100X', 'Ajustador', 34, 130),
 ('FEA', '114', 'Bancada Motor', 1325, 6),
 ('IMM', '887X', 'Retenedor Riostra', 475, 13),
 ('REI', '2A44G', 'Pasador Bisagra', 350, 14);

INSERT INTO rep_Ventas VALUES

(105, 'Bill Adams', 37, 13, 'Rep Ventas', '1988-02-12', 104, 350000.00, 367911.00),
 (109, 'Mary Jones', 31, 11, 'Rep Ventas', '1990-10-12', 106, 300000.00, 392726.00),
 (102, 'Sue Smith', 48, 21, 'Dir Ventas', '1986-12-10', 100, 350000.00, 474050.00),
 (106, 'Sam Clark', 55, 22, 'VP Ventas', '1986-04-19', 104, 200000.00, 299912.00),
 (104, 'Bob Smith', 32, 11, 'Rep Ventas', '1987-05-14', 106, 200000.00, 142594.00),
 (110, 'Dan Roberts', 45, 21, 'Dir Ventas', '1990-11-13', 104, 300000.00, 305673.00),
 (101, 'Tom Snyder', 41, null, 'Rep Ventas', '1990-01-13', 101, null, 75985.00),
 (103, 'Larry Fitch', 62, 12, 'Dir Ventas', '1986-12-10', 100, 350000.00, 361865.00),
 (108, 'Paul Cruz', 29, 21, 'Rep Ventas', '1987-03-01', 104, 275000.00, 286775.00),
 (107, 'Nancy Angelli', 49, 22, 'Rep Ventas', '1988-11-14', 108, 300000.00, 186042.00);

INSERT INTO clientes VALUES

(2111, 'JCP Inc.', 103, 50000.00),
 (2102, 'First Corp.', 101, 65000.00),

(2103, 'Acme Mfg.', 105, 50000.00),
(2123, 'Carter & Sons', 102, 40000.00),
(2107, 'Ace International', 110, 35000.00),
(2115, 'Smithson Corp.', 101, 20000.00),
(2110, 'Jones Mfg.', 106, 65000.00),
(2112, 'Zetacorp', 108, 50000.00),
(2114, 'QMA Assoc.', 103, 45000.00),
(2124, 'Orion Corp.', 102, 20000.00),
(2125, 'Peter Brothers', 107, 40000.00),
(2108, 'Holm & Landis', 109, 55000.00),
(2117, 'J.P. Sinclair', 106, 35000.00),
(2122, 'Three-Way Lines', 105, 30000.00),
(2120, 'Rico Enterprises', 102, 50000.00),
(2116, 'Fred Lewis Corp.', 102, 65000.00),
(2119, 'Solomon Inc', 109, 25000.00),
(2118, 'Midwest Systems', 108, 60000.00),
(2113, 'Ian & Schmith', 104, 20000.00),
(2109, 'Chen Associates', 103, 25000.00),
(2105, 'AAA Investments', 101, 45000.00);

Punto 1

```
SELECT o.ventas, o.objetivo  
FROM Oficinas o  
WHERE o.region = 'este';
```

Punto 2

```
select o.ventas, o.objetivo  
from oficinas o  
WHERE o.region = 'este'  
and o.ventas> o.objetivo  
order by  
o.ciudad asc;
```

punto 3

```
SELECT SUM(objetivo) / COUNT(*) AS promedio_objetivo,  
       SUM(ventas) / COUNT(*) AS promedio_ventas  
FROM oficinas  
WHERE region = 'Este';
```

Punto 4

```
SELECT nombre, cuota, ventas  
FROM rep_ventas  
WHERE num_empl = 107;
```

Punto 5

```
SELECT ciudad, region, ventas - objetivo AS diferencia_objetivo  
FROM oficinas;
```

Punto 6

```
SELECT nombre_producto, cantidad, precio_unitario, cantidad * precio_unitario AS  
valor_inventario  
FROM productos;
```

Punto 7

```
SELECT nombre, fecha_contratacion  
FROM rep_ventas  
WHERE fecha_contratacion < '1988-01-01';
```

Punto 8

```
SELECT *  
FROM oficinas  
WHERE ventas < (0.8 * objetivo);
```


Punto 9

```
SELECT id_pedido, fecha_pedido  
FROM pedidos  
WHERE fecha_pedido BETWEEN '1989-10-01' AND '1989-12-31';
```

Punto 10

```
SELECT id_pedido, fecha_pedido, id_vendedor  
FROM pedidos  
WHERE id_vendedor IN (107, 109, 101, 103);
```