UD5. INFORMES

Ejercicio 1: Informes sencillos

Usando la Base de Datos SampleDB incorporada en JasperStudio, crea un proyecto en JasperSoft llamado InformesSencillos con los siguientes informes:

a) Muestre todos los pedidos de todos los clientes ordenados ascendentemente.

```
SELECT *
FROM POSITIONS
ORDER BY DOCUMENTID ASC
```

DOCUMENTID	POSITIONNO	PRODUCTID	QUANTITY	PRICE
0	0	7	12	12.60000000000000000000000...
0	1	14	19	18.60000000000000000000000...
0	2	47	3	26.70000000000000000000000...
0	3	1	9	37.20000000000000000000000...
0	4	47	1	26.70000000000000000000000...
0	5	12	15	25.20000000000000000000000...
0	6	16	9	29.10000000000000000000000...
0	7	7	10	12.60000000000000000000000...
0	8	0	23	8.10000000000000000000000...
0	9	35	4	11.40000000000000000000000...

PEDIDOS ORDENADOS ASCENDENTEMENTE

DOCUMENTID	POSITIONNO	PRODUCTID	QUANTITY	PRICE
0	0	7	12	12.6000000000000000 00000000000000000
0	1	14	19	18.6000000000000000 00000000000000000
0	2	47	3	26.7000000000000000 00000000000000000
0	3	1	9	37.2000000000000000 00000000000000000
0	4	47	1	26.7000000000000000 00000000000000000
0	5	12	15	25.2000000000000000 00000000000000000
0	6	16	9	29.1000000000000000 00000000000000000
0	7	7	10	12.6000000000000000 00000000000000000
0	8	0	23	8.1000000000000000 00000000000000000
0	9	35	4	11.4000000000000000 00000000000000000
0	10	4	8	19.2000000000000000 00000000000000000
0	11	12	4	25.2000000000000000 00000000000000000
0	12	1	11	37.2000000000000000 00000000000000000
1	0	40	8	4.2000000000000000 00000000000000000
1	1	0	9	8.1000000000000000 00000000000000000
1	2	19	6	16.5000000000000000 00000000000000000
1	3	38	8	32.4000000000000000 00000000000000000

b) Muestre todos los pedidos de un cliente en concreto (Debe pedir su nombre y sus apellidos)

```
SELECT O.*
FROM DOCUMENT O
INNER JOIN ADDRESS C ON O.ADDRESSID = C.ID
WHERE C.FIRSTNAME = 'Laura' AND C.LASTNAME = 'Steel'
```

ID	ADDRESSID	TOTAL
0	0	2607.600000000000000000000000000000

PEDIDOS DE UN CLIENTE CONCRETO

ID	ADDRESSID	TOTAL
0	0	2607.600000000000000000000000000000

c) Lo mismo que el anterior, pero que al FINAL muestre la suma de todos sus pedidos.

```
SELECT O.*, SUM(O.TOTAL) AS TOTAL_SUM
FROM DOCUMENT O
INNER JOIN ADDRESS C ON O.ADDRESSID = C.ID
WHERE C.FIRSTNAME = 'Laura' AND C.LASTNAME = 'Steel'
GROUP BY O.ID
```

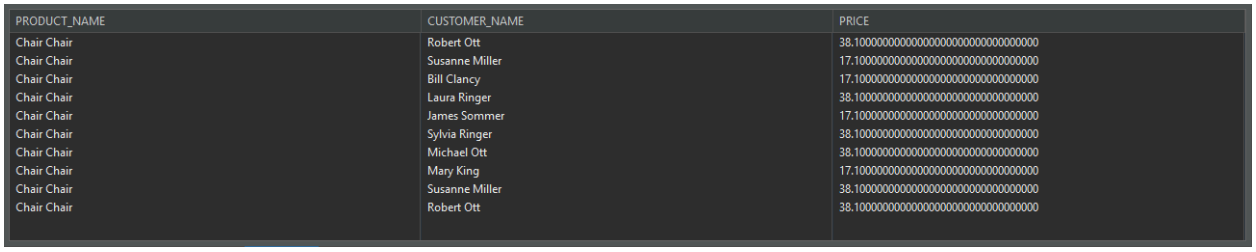
ID	ADDRESSID	TOTAL	TOTAL_SUM
0	0	2607.600000000000000000000000000000	2607.600000000000000000000000000000

PEDIDOS Y SUMA DE UN CLIENTE CONCRETO

ID	ADDRESSID	TOTAL	TOTAL_SUM
0	0	2607.600000000000000000000000000000	2607.600000000000000000000000000000

d) Mostrar el precio de venta de los productos agrupado por productos, mostrando el nombre del cliente. Al final de cada producto debe mostrar la media del precio de venta.

```
SELECT PRODUCT.NAME AS PRODUCT_NAME,
   ADDRESS.FIRSTNAME || ' ' || ADDRESS.LASTNAME AS CUSTOMER_NAME,
   POSITIONS.PRICE
FROM POSITIONS
JOIN DOCUMENT ON POSITIONS.DOCUMENTID = DOCUMENT.ID
JOIN PRODUCT ON POSITIONS.PRODUCTID = PRODUCT.ID
JOIN ADDRESS ON DOCUMENT.ADDRESSID = ADDRESS.ID
ORDER BY PRODUCT_NAME
```



PRODUCT_NAME	CUSTOMER_NAME	PRICE
Chair Chair	Robert Ott	38.10000000000000000000000000000000
Chair Chair	Susanne Miller	17.10000000000000000000000000000000
Chair Chair	Bill Clancy	17.10000000000000000000000000000000
Chair Chair	Laura Ringer	38.10000000000000000000000000000000
Chair Chair	James Sommer	17.10000000000000000000000000000000
Chair Chair	Sylvia Ringer	38.10000000000000000000000000000000
Chair Chair	Michael Ott	38.10000000000000000000000000000000
Chair Chair	Mary King	17.10000000000000000000000000000000
Chair Chair	Susanne Miller	38.10000000000000000000000000000000
Chair Chair	Robert Ott	38.10000000000000000000000000000000

Precio de los productos agrupado por productos, mostrando el nombre del cliente y media del precio de venta.

PRODUCT_NAME	CUSTOMER_NAME	PRICE
Chair Chair	Robert Ott	38.1000000000000000000000000000000000
Chair Chair	Susanne Miller	17.1000000000000000000000000000000000
Chair Chair	Bill Clancy	17.1000000000000000000000000000000000
Chair Chair	Laura Ringer	38.1000000000000000000000000000000000
Chair Chair	James Sommer	17.1000000000000000000000000000000000
Chair Chair	Sylvia Ringer	38.1000000000000000000000000000000000
Chair Chair	Michael Ott	38.1000000000000000000000000000000000
Chair Chair	Mary King	17.1000000000000000000000000000000000

e) Muestre todos los productos comprados por un cliente concreto (Debe pedir su nombre y sus apellidos). Al final debe mostrar la suma de sus pedidos.

```
SELECT
  ADDRESS.FIRSTNAME || ' ' || ADDRESS.LASTNAME AS CUSTOMER_NAME,
  PRODUCT.NAME AS PRODUCT_NAME,
  POSITIONS.PRICE,
  (SELECT SUM(POSITIONS.PRICE)
   FROM POSITIONS
   JOIN DOCUMENT ON POSITIONS.DOCUMENTID = DOCUMENT.ID
   JOIN ADDRESS ON DOCUMENT.ADDRESSID = ADDRESS.ID
   WHERE ADDRESS.FIRSTNAME = 'Laura' AND ADDRESS.LASTNAME = 'Steel') AS TOTAL_PRICE
FROM
  POSITIONS
JOIN
  DOCUMENT ON POSITIONS.DOCUMENTID = DOCUMENT.ID
JOIN
  PRODUCT ON POSITIONS.PRODUCTID = PRODUCT.ID
JOIN
  ADDRESS ON DOCUMENT.ADDRESSID = ADDRESS.ID
WHERE
  ADDRESS.FIRSTNAME = 'Laura' AND ADDRESS.LASTNAME = 'Steel'
ORDER BY
  CUSTOMER_NAME, PRODUCT_NAME
```

CUSTOMER_NAME	PRODUCT_NAME	PRICE	TOTAL_PRICE
Laura Steel	Chair Shoe	37.200000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Chair Shoe	37.200000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Clock Ice Tea	25.200000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Clock Ice Tea	25.200000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Ice Tea Iron	26.700000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Ice Tea Iron	26.700000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Ice Tea Shoe	19.200000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Ice Tea Shoe	29.100000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Iron Iron	8.100000000000000000000000000000	289.800000000000000000000000000000
Laura Steel	Telephone Iron	18.600000000000000000000000000000	289.800000000000000000000000000000

Productos comprados por un cliente concreto y suma de sus pedidos.

CUSTOMER_NAME	PRODUCT_NAME	PRICE	TOTAL_PRICE
Laura Steel	Chair Shoe	37.2000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Chair Shoe	37.2000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Clock Ice Tea	25.2000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Clock Ice Tea	25.2000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Ice Tea Iron	26.7000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Ice Tea Iron	26.7000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Ice Tea Shoe	19.2000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Ice Tea Shoe	29.1000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Iron Iron	8.10000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Telephone Iron	18.6000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Telephone Shoe	11.4000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Telephone Shoe	12.6000000000000000000000000000000	289.8000000000000000000000000000000
Laura Steel	Telephone Shoe	12.6000000000000000000000000000000	289.8000000000000000000000000000000

f) Muestre los productos comprados por los clientes, agrupados por cada cliente, mostrando por cada cliente la suma y media del precio de los productos.

```
SELECT
  ADDRESS.FIRSTNAME || ' ' || ADDRESS.LASTNAME AS CUSTOMER_NAME,
  COUNT(PRODUCT.ID) AS TOTAL_PRODUCTS,
  SUM(POSITIONS.PRICE) AS TOTAL_PRICE,
  AVG(POSITIONS.PRICE) AS AVERAGE_PRICE
FROM
  POSITIONS
JOIN
  DOCUMENT ON POSITIONS.DOCUMENTID = DOCUMENT.ID
JOIN
  PRODUCT ON POSITIONS.PRODUCTID = PRODUCT.ID
JOIN
  ADDRESS ON DOCUMENT.ADDRESSID = ADDRESS.ID
GROUP BY
  ADDRESS.FIRSTNAME, ADDRESS.LASTNAME
ORDER BY
  CUSTOMER_NAME
```

CUSTOMER_NAME	TOTAL_PRODUCTS	TOTAL_PRICE	AVERAGE_PRICE
Andrew Heiniger	25	570.900000000000000000000000000000	22.836000000000000000000000000000
Andrew May	49	1065.900000000000000000000000000000	21.753061224489795918367346938775510
Andrew Miller	12	282.000000000000000000000000000000	23.500000000000000000000000000000
Andrew Smith	10	200.100000000000000000000000000000	20.010000000000000000000000000000
Bill Clancy	16	337.800000000000000000000000000000	21.112500000000000000000000000000
Bill Ott	22	534.000000000000000000000000000000	24.272727272727272727272727272727
Bill Sommer	6	98.1000000000000000000000000000000	16.350000000000000000000000000000
Bob Ringer	9	228.900000000000000000000000000000	25.433333333333333333333333333333
Bob Sommer	17	447.300000000000000000000000000000	26.311764705882352941176470588235294
George Karsen	23	434.700000000000000000000000000000	18.900000000000000000000000000000

Productos comprados por los clientes, agrupados por cada cliente, mostrando por cada cliente la suma y media del precio de los productos.

CUSTOMER_NAME	TOTAL_PRODUCTS	TOTAL_PRICE	AVERAGE_PRICE
Andrew Heiniger	25	570.900000000000000000000000000000	22.836000000000000000000000000000
Andrew May	49	1065.900000000000000000000000000000	21.753061224489795918367346938775510
Andrew Miller	12	282.000000000000000000000000000000	23.500000000000000000000000000000
Andrew Smith	10	200.100000000000000000000000000000	20.010000000000000000000000000000
Bill Clancy	16	337.800000000000000000000000000000	21.112500000000000000000000000000
Bill Ott	22	534.000000000000000000000000000000	24.272727272727272727272727272727
Bill Sommer	6	98.1000000000000000000000000000000	16.350000000000000000000000000000
Bob Ringer	9	228.900000000000000000000000000000	25.433333333333333333333333333333
Bob Sommer	17	447.300000000000000000000000000000	26.311764705882352941176470588235290
George Karsen	23	434.700000000000000000000000000000	18.900000000000000000000000000000
James Clancy	19	381.600000000000000000000000000000	20.084210526315789473684210526315780
James Schneider	5	59.70000000000000000000000000000	11.940000000000000000000000000000
James Sommer	40	855.600000000000000000000000000000	21.390000000000000000000000000000
Janet May	30	613.200000000000000000000000000000	20.440000000000000000000000000000
Janet Schneider	3	83.40000000000000000000000000000	27.800000000000000000000000000000
John Steel	17	400.800000000000000000000000000000	23.576470588235294117647058823529410
Julia Clancy	18	412.200000000000000000000000000000	22.900000000000000000000000000000
Julia Heiniger	36	708.300000000000000000000000000000	19.675000000000000000000000000000

INSTRUCCIONES:

1. Nombra los informes con un nombre que consideres adecuado, empezando por la letra de su apartado, por ejemplo, b_pedidos_cliente.jrxml

2. Se creará un único PDF con los resultados obtenidos del JasperSoft, una captura con la jerarquía del proyecto e informes creados y de cada apartado al menos 3 CAPTURAS, una del diseño del informe, otra de su resultado y una del modelo SQL usado.

3. Sube los informes junto con el PDF en un archivo comprimido (.zip,...)