

2. Product Sales per City

For each pair of city and product, return the names of the city and product, as well the total amount spent on the product to 2 decimal places. Order the result by the amount spent from high to low then by city name and product name in ascending order.

▼ Schema

There are 5 tables: customer, city, invoice, invoice_item, product.

city		
Name	Type	Description
id	int	This is a primary key
city_name	varchar(128)	Name of the city
postal_code	varchar(16)	Postal code of the city
country_id	int	Unique id representing different countries

customer		
Name	Type	Description
id	int	This is a primary key
customer_name	varchar(255)	Customer name
city_id	int	Foreign key referencing city.id
customer_address	varchar(255)	Address
contact_person	varchar(255)	Can be NULL
email	varchar(128)	Email
phone	varchar(128)	Phone number
is_active	int	Boolean

invoice

Name	Type	Description
id	int	This is a primary key
invoice_number	varchar(255)	Invoice number
customer_id	int	Foreign key referencing customer.id
user_account_id	int	Account ID
total_price	decimal(8,2)	Total price

invoice_item

Name	Type	Description
id	int	This is a primary key
invoice_id	int	Foreign key referencing invoice.id
product_id	int	Foreign key referencing product.id
quantity	decimal(8,2)	Quantity
price	decimal(8,2)	Price
line_total_price	decimal(8,2)	Line total price

product		
Name	Type	Description
id	int	This is a primary key
sku	varchar(32)	SKU
product_name	varchar(128)	Name
product_description	varchar(255)	Description of the product
current_price	decimal(8,2)	Current price
quantity_in_stock	decimal(8,2)	Quantity
is_active	int	Boolean

▼ Sample Data Tables

city			
id	city_name	postal_code	country_id
1	Wien	1010	1
2	Berlin	10115	2
3	Hamburg	20095	2
4	London	EC4V 4AD	3

▼ Sample Data Tables

city			
id	city_name	postal_code	country_id
1	Wien	1010	1
2	Berlin	10115	2
3	Hamburg	20095	2
4	London	EC4V 4AD	3

customer							
id	customer_name	city_id	customer_address	contact_person	email	phone	is_active
1	Drogerie Wien	1	Deckergasse 15A	Emil Steinbach	emil@drogeriewien.com	094234234	1
2	Cosmetics Store	4	Watling Street 347	Jeremy Corbyn	jeremy@c-store.org	093923923	1
3	Kosmetikstudio	3	Rothenbaumchaussee 53	Willy Brandt	willy@kosmetikstudio.com	0941562222	0
4	Neue Kosmetik	1	Karlsplatz 2	NULL	info@neuekosmetik.com	094109253	1
5	Bio Kosmetik	2	Motzstraße 23	Clara Zetkin	clara@biokosmetik.org	093825825	1
6	K-Wien	1	Kärntner Straße 204	Maria Rauch-Kallat	maria@kwien.org	093427002	1
7	Natural Cosmetics	4	Clerkenwell Road 14B	Glenda Jackson	glena.j@natural-cosmetics.com	093555123	1
8	Kosmetik Plus	2	Unter den Linden 1	Angela Merkel	angela@k-plus.com	094727727	1
9	New Line Cosmetics	4	Devonshire Street 92	Oliver Cromwell	oliver@nlc.org	093202404	0

invoice				
id	invoice_number	customer_id	user_account_id	total_price
1	in_25181b07ba800c8d2fc967fe991807d9	7	4	1436
2	8fba0000fd456b27502b9f81e9d52481	9	2	1000
3	3b6638118246b6bcfd3dfcd9be487599	3	2	360
4	dfe7f0a01a682196cac0120a9adbb550	5	2	1675
5	2a24cc2ad4440d698878a0a1a71f70fa	6	2	9500
6	cbd304872ca6257716bcab8fc43204d7	4	2	150

invoice_item					
id	invoice_id	product_id	quantity	price	line_total_price
1	1	1	20	65	1300
2	1	7	2	68	136
3	1	5	10	100	1000
4	3	10	2	180	360
5	4	1	5	65	325
6	4	2	10	95	950
7	4	5	4	100	400
8	5	10	100	95	9500
9	6	4	6	25	150

product						
id	sku	product_name	product_description	current_price	quantity_in_stock	is_active
1	330120	Game Of Thrones - URBAN DECAY	Game Of Thrones Eyeshadow Palette	65	122	1
2	330121	Advanced Night Repair - ESTÉE LAUDER	Advanced Night Repair Synchronized Recovery Complex II	98	51	1
3	330122	Rose Deep Hydration - FRESH	Rose Deep Hydration Facial Toner	45	34	1
4	330123	Pore-Perfecting Moisturizer - TATCHA	Pore-Perfecting Moisturizer & Cleanser Duo	25	393	1
5	330124	Capture Youth - DIOR	Capture Youth Serum Collection	95	74	1
6	330125	Slice of Glow - GLOW RECIPE	Slice of Glow Set	45	40	1
7	330126	Healthy Skin - KIEHL'S SINCE 1851	Healthy Skin Squad	68	154	1
8	330127	Power Pair! - IT COSMETICS	IT's Your Skincare Power Pair! Best-Selling Moisturizer & Eye Cream Duo	80	0	0
9	330128	Dewy Skin Mist - TATCHA	Limited Edition Dewy Skin Mist Mini	20	281	1
10	330129	Silk Pillowcase - SLIP	Silk Pillowcase Duo + Scrunchies Kit	170	0	1

Invoices from ids 1 through 6 correspond to city ids 4, 4, 3, 2, 1, and 1 respectively. Hence the invoice items correspond to cities 4, 4, 4, 3, 2, 2, 2, 1, and 1 respectively. The city-product pairs of interest are (4, 1), (4, 7), (4, 5), (3, 10), (2, 1), (2, 2), (2, 5), (1, 10), and (1, 4).