Week04 - Testing Database SQL to check the tables

Q1. Check that each table will display the output presented in the individual tables

Code	Expected Output (Comment)	Actual Ou	ıtput (Scre	enshot)				
Select *	All records display	user_id	firstname	lastname	email	password	reg_date	payment_id
From users;	(10 records)	1	John	Doe	johndoe@example.com	password123	2023-05-01 00:00:00	1001
		2	Jane	Smith	janesmith@example.com	p@ssw0rd456	2023-05-02 00:00:00	1002
		3	Michael	Johnson	michaeljohnson@example.com	securepass	2023-05-03 00:00:00	1003
		4	Emily	Brown	emilybrown@example.com	qwerty123	2023-05-04 00:00:00	1004
		5	David	Wilson	davidwilson@example.com	password321	2023-05-05 00:00:00	1005
		6	Sarah	Taylor	sarahtaylor@example.com	safepass	2023-05-06 00:00:00	1006
		7	Matthew	Anderson	matthewanderson@example.com	pass1234	2023-05-07 00:00:00	1007
		8	Olivia	Lee	olivialee@example.com	password789	2023-05-08 00:00:00	1008
		9	Daniel	Martinez	danielmartinez@example.com	danielpass	2023-05-09 00:00:00	1009
		10	Sophia	Garcia	sophiagarcia@example.com	pass4567	2023-05-10 00:00:00	1010

Q2. Show the output from two of the adjacent tables in turn – that is orders and item; users and item

Code	Expected Output (Comment)	Actual Out	put (Sc	reensl	not)							
SELECT	Orders and items =	user_id it	tem id	total	order date	quantity	y payment_	id item_name	item desc	item_img it	em price	
o.user_id,	10 orders over 5	1	1	21.98	2023-05-01 00:00:00)	_	001 Item 1	Description 1		10.99	
o.item id,	different items, for a	1	3	8.99	2023-05-02 00:00:00)	1 1	002 Item 3	Description 3	image3.jpg	8.99	
o.total,	total of 18 items	1	4	12.99	2023-05-10 00:00:00)	1 1	010 Item 4	Description 4	image4.jpg	12.99	
o.order date,	sold.	2	1	21.98	2023-05-06 00:00:00)	2 1	006 Item 1	Description 1	image1.jpg	10.99	
o.quantity,	2010.	2	2	47.97	2023-05-03 00:00:00)	3 1	003 Item 2	Description 2	image2.jpg	15.99	
o.payment id,		3	3	8.99	2023-05-07 00:00:00)	1 1	007 Item 3	Description 3	image3.jpg	8.99	
i.item name,		3	5	39.98	2023-05-04 00:00:00)	2 1	004 Item 5	Description 5		19.99	
i.item desc,		4	2	31.98	2023-05-09 00:00:00)	2 1	009 Item 2	Description 2	image2.jpg	15.99	
– ′		4	4	12.99	2023-05-05 00:00:00)	1 1	005 Item 4	Description 4	image4.jpg	12.99	
i.item_img,		5	5	59.97	2023-05-08 00:00:00)	3 1	008 Item 5	Description 5		19.99	
i.item_price FROM												
orders o JOIN items i ON o.item_id = i.item_id;												
SELECT	Users and Items = 5	user_id firstname	lastname	email	reg_dat	e it	tem_id item_name	item_desc item_img	item_price total	ıl order_date	quantity payme	ent_id
u.user id,	users who	1 John	Doe	_		01 00:00:00	1 Item 1	Description 1 image1.jp		98 2023-05-01 00:00:0		1001
– ′		1 John	Doe Doe			01 00:00:00 01 00:00:00	3 Item 3 4 Item 4	Description 3 image3.jp Description 4 image4.jp		.99 2023-05-02 00:00:0 .99 2023-05-10 00:00:0		1002 1010
		l l John										1006
u.firstname,	purchased among 5	1 John 2 Jane	Smith		example.com 2023-05	02 00:00:00	1 Item 1	Description 1 image1.jp	10.99 21	.98 2023-05-06 00:00:0	-	
u.lastname,	purchased among 5 items.	2 Jane 2 Jane	Smith Smith	janesmith(example.com 2023-05	02 00:00:00 02 00:00:00	1 Item 1 2 Item 2	Description 1 image1.jp Description 2 image2.jp	15.99 47	97 2023-05-03 00:00:0	0 3	1003
,	1-	2 Jane 2 Jane 3 Michael	Smith Smith Johnson	janesmith(janesmith(michaeljoh	Dexample.com 2023-05 nson@example.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00	1 Item 1 2 Item 2 3 Item 3	Description 1 image1.jp Description 2 image2.jp Description 3 image3.jp	15.99 47 3 8.99 8	.97 2023-05-03 00:00:0 .99 2023-05-07 00:00:0	0 3 0 1	1007
u.lastname, u.email,	1-	2 Jane 2 Jane	Smith Smith	janesmith@ janesmith@ michaeljoh michaeljoh	9example.com 2023-05 nson@example.com 2023-05 nson@example.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00	1 Item 1 2 Item 2	Description 1 image1.jp Description 2 image2.jp	15.99 47 g 8.99 8 g 19.99 39	97 2023-05-03 00:00:0	0 3 0 1 0 2	
u.lastname, u.email, u.reg_date,	1-	2 Jane 2 Jane 3 Michael 3 Michael 4 Emily 4 Emily	Smith Smith Johnson Johnson Brown	janesmith@ janesmith@ michaeljoh michaeljoh emilybrown emilybrown	gexample.com 2023-05 nson@example.com 2023-05 nson@example.com 2023-05 n@example.com 2023-05 n@example.com 2023-05 n@example.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00 03 00:00:00 04 00:00:00 04 00:00:00	1 Item 1 2 Item 2 3 Item 3 5 Item 5 2 Item 2 4 Item 4	Description 1 image1.jp Description 2 image2.jp Description 3 image3.jp Description 5 image5.jp Description 2 image2.jp Description 4 image4.jp	15.99 47 3 8.99 8 3 19.99 39 3 15.99 31 4 12.99 12	97 2023-05-03 00:00:0 99 2023-05-07 00:00:0 98 2023-05-04 00:00:0 98 2023-05-09 00:00:0 99 2023-05-05 00:00:0	0 3 0 1 0 2 0 2 0 2	1007 1004 1009 1005
u.lastname, u.email, u.reg_date, o.item_id,	1-	2 Jane 2 Jane 3 Michael 3 Michael 4 Emily	Smith Smith Johnson Johnson Brown	janesmith@ janesmith@ michaeljoh michaeljoh emilybrown emilybrown	gexample.com 2023-05 nson@example.com 2023-05 nson@example.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00 03 00:00:00 04 00:00:00	1 Item 1 2 Item 2 3 Item 3 5 Item 5 2 Item 2	Description 1 image1.jp Description 2 image2.jp Description 3 image3.jp Description 5 image5.jp Description 2 image2.jp	15.99 47 3 8.99 8 3 19.99 39 3 15.99 31 4 12.99 12	.97 2023-05-03 00:00:0 .99 2023-05-07 00:00:0 .98 2023-05-04 00:00:0 .98 2023-05-09 00:00:0	0 3 0 1 0 2 0 2 0 2	1007 1004 1009
u.lastname, u.email, u.reg_date, o.item_id, i.item_name,	1-	2 Jane 2 Jane 3 Michael 3 Michael 4 Emily 4 Emily	Smith Smith Johnson Johnson Brown	janesmith@ janesmith@ michaeljoh michaeljoh emilybrown emilybrown	gexample.com 2023-05 nson@example.com 2023-05 nson@example.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00 03 00:00:00 04 00:00:00 04 00:00:00	1 Item 1 2 Item 2 3 Item 3 5 Item 5 2 Item 2 4 Item 4	Description 1 image1.jp Description 2 image2.jp Description 3 image3.jp Description 5 image5.jp Description 2 image2.jp Description 4 image4.jp	15.99 47 3 8.99 8 3 19.99 39 3 15.99 31 4 12.99 12	97 2023-05-03 00:00:0 99 2023-05-07 00:00:0 98 2023-05-04 00:00:0 98 2023-05-09 00:00:0 99 2023-05-05 00:00:0	0 3 0 1 0 2 0 2 0 2	1007 1004 1009 1005
u.lastname, u.email, u.reg_date, o.item_id, i.item_name, i.item_desc,	1-	2 Jane 2 Jane 3 Michael 3 Michael 4 Emily 4 Emily	Smith Smith Johnson Johnson Brown	janesmith@ janesmith@ michaeljoh michaeljoh emilybrown emilybrown	gexample.com 2023-05 nson@example.com 2023-05 nson@example.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00 03 00:00:00 04 00:00:00 04 00:00:00	1 Item 1 2 Item 2 3 Item 3 5 Item 5 2 Item 2 4 Item 4	Description 1 image1.jp Description 2 image2.jp Description 3 image3.jp Description 5 image5.jp Description 2 image2.jp Description 4 image4.jp	15.99 47 3 8.99 8 3 19.99 39 3 15.99 31 4 12.99 12	97 2023-05-03 00:00:0 99 2023-05-07 00:00:0 98 2023-05-04 00:00:0 98 2023-05-09 00:00:0 99 2023-05-05 00:00:0	0 3 0 1 0 2 0 2 0 2	1007 1004 1009 1005
u.lastname, u.email, u.reg_date, o.item_id, i.item_name,	1-	2 Jane 2 Jane 3 Michael 3 Michael 4 Emily 4 Emily	Smith Smith Johnson Johnson Brown	janesmith@ janesmith@ michaeljoh michaeljoh emilybrown emilybrown	gexample.com 2023-05 nson@example.com 2023-05 nson@example.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05 ngexample.com 2023-05	02 00:00:00 02 00:00:00 03 00:00:00 03 00:00:00 04 00:00:00 04 00:00:00	1 Item 1 2 Item 2 3 Item 3 5 Item 5 2 Item 2 4 Item 4	Description 1 image1.jp Description 2 image2.jp Description 3 image3.jp Description 5 image5.jp Description 2 image2.jp Description 4 image4.jp	15.99 47 3 8.99 8 3 19.99 39 3 15.99 31 4 12.99 12	97 2023-05-03 00:00:0 99 2023-05-07 00:00:0 98 2023-05-04 00:00:0 98 2023-05-09 00:00:0 99 2023-05-05 00:00:0	0 3 0 1 0 2 0 2 0 2	1007 1004 1009 1005



Q3. Connect all three tables and display the output that shows the output from these three tables – users, orders and item.

Code	Expected Output (Comment)	Actu	al Out _f	out (Sc	reenshot)										
SELECT	5 users who made	user_id	firstname	lastname	email	reg_date	item_id	tota	ıl order_date	quantity	payment_id	item_name	item_desc	item_img	item_price
	=		1 John	Doe	johndoe@example.com	2023-05-01 00:00:00	1	21.	98 2023-05-01 00:00:00	2	100	01 Item 1	Description 1	image1.jpg	10.99
u.user_id,	10 orders, buying		1 John	Doe	johndoe@example.com	2023-05-01 00:00:00	3	8.	99 2023-05-02 00:00:00	1	100	02 Item 3	Description 3	image3.jpg	8.99
u.firstname,	among 5 out of 10		1 John	Doe	johndoe@example.com	2023-05-01 00:00:00			99 2023-05-10 00:00:00	1		10 Item 4	Description 4		12.99
	1.		2 Jane	Smith		2023-05-02 00:00:00			98 2023-05-06 00:00:00	2		06 Item 1	Description 1		10.99
u.lastname,	items.		2 Jane	Smith	janesmith@example.com	2023-05-02 00:00:00			97 2023-05-03 00:00:00	3		03 Item 2	Description 2	- "	15.99 8.99
u.email,			3 Michael 3 Michael	Johnson Johnson	michaeljohnson@example.com michaeljohnson@example.com				99 2023-05-07 00:00:00 98 2023-05-04 00:00:00	2		07 Item 3 04 Item 5	Description 3 Description 5		19.99
u.reg date,			4 Emily	Brown	emilybrown@example.com	2023-05-04 00:00:00			98 2023-05-04 00:00:00	2		04 item 5 09 Item 2	Description 2		15.99
			4 Emily	Brown	emilybrown@example.com	2023-05-04 00:00:00			99 2023-05-05 00:00:00	1		05 Item 4	Description 4		12.99
o.item_id,			5 David	Wilson		2023-05-05 00:00:00			97 2023-05-08 00:00:00	3		08 Item 5	Description 5		19.99
o.total, o.order_date, o.quantity, o.payment_id, i.item_name, i.item_desc,			, David	Wilson	oaviowison@example.com	2223-07-03 00:00:00		33.	31 2022-03-00 00.00.00	3	100	o item 3	Description 3	illiages,jpg	13.39

i.item_img, i.item_price FROM			
users u JOIN			
orders o ON			
u.user_id = o.user_id JOIN			
items i ON			
o.item_id = i.item_id;			

Q4. Create a query that will show the user and items – so link these two.

Code	Expected Output (Comment)	Actual	Output (Screensl	not)						
SELECT	5 users who	user_id	firstname	lastname	email	reg_date	item_id	item_name	item_desc	item_img	item_price
u.user id,	purchased among 5	1	1 John	Doe	johndoe@example.com	2023-05-01 00:00:00		1 Item 1	Description 1	image1.jpg	10.99
	items out of 10 sold	2	2 Jane	Smith	janesmith@example.com	2023-05-02 00:00:00		1 Item 1	Description 1	image1.jpg	10.99
u.firstname,	-	2	2 Jane	Smith	janesmith@example.com	2023-05-02 00:00:00		2 Item 2	Description 2	image2.jpg	15.99
u.lastname,	by the shop.	4	4 Emily	Brown	emilybrown@example.com	2023-05-04 00:00:00		2 Item 2	Description 2	image2.jpg	15.99
u.email,		1	1 John	Doe	johndoe@example.com	2023-05-01 00:00:00	;	3 Item 3	Description 3	image3.jpg	8.99
u.reg_date,		3	3 Michael	Johnson	michaeljohnson@example.com	2023-05-03 00:00:00	;	3 Item 3	Description 3	image3.jpg	8.99
i.item id,		1	1 John	Doe	johndoe@example.com	2023-05-01 00:00:00	4	1 Item 4	Description 4	image4.jpg	12.99
i.item name,		4	4 Emily	Brown	emilybrown@example.com	2023-05-04 00:00:00	4	1 Item 4	Description 4	image4.jpg	12.99
i.item desc,		3	3 Michael	Johnson	michaeljohnson@example.com	2023-05-03 00:00:00		5 Item 5	Description 5	image5.jpg	19.99
		5	David	Wilson	davidwilson@example.com	2023-05-05 00:00:00	į	5 Item 5	Description 5	image5.jpg	19.99
i.item_img,											
i.item_price											
FROM											
users u											
JOIN											
orders o ON											

u.user_id = o.user_id JOIN	
items i ON o.item_id = i.item_id;	

Q5. A manager wants to show a catalog of the items in the system – but only the following attributes showing: item_id, item_name, item_price.

(Comment)
SELECT item_id, item_name, item_price FROM items; 10 items item_id item_name item_price 1 tem 1 10.99 2 tem 2 15.99 3 tem 3 8.99 4 tem 4 12.99 5 tem 5 19.99 6 tem 6 7.99 7 tem 7 14.99 8 tem 8 9.99 9 tem 9 11.99 10 tem 10 16.99