DATABASE DESIGN

Table 1: roles

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	roleId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the role
2	roleName	NOT NULL, UNIQUE	varchar(50)	Name of the role (e.g., admin, customer)
3	status	varchar(50)		Status of the role (e.g., active, inactive)
4	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the role was created
5	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the role was last updated

Table 2: users

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	userId	PRIMARY KEY, DEFAULT: uuid_generate_v4()	uuid	Unique identifier for the user
2	email	NOT NULL, UNIQUE	varchar(255)	User's email address
3	passwordHash	NOT NULL	varchar(255)	Hashed password for the user

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
4	roleId	FOREIGN KEY REFERENCES roles(roleId), NOT NULL	int	User's assigned role ID (references roles)
5	googleAuthId	varchar(255)		Google authentication ID (if applicable)
6	status	varchar(50)		Status of the user (e.g., active, inactive)
7	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the user was created
8	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the user was last updated

Table 3: stores

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	storeId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the store
2	userId	FOREIGN KEY REFERENCES users(userId), NOT NULL	uuid	User ID who owns the store (references users)
3	storeName	NOT NULL, UNIQUE	varchar(255)	Name of the store
4	storeDesc	text		Description of the store

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
5	status	varchar(50)		Status of the store (e.g., active, inactive)
6	totalOrders	DEFAULT: 0	int	Total number of orders placed for the store
7	totalProducts	DEFAULT: 0	int	Total number of products in the store
8	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the store was created
9	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the store was last updated
10	store_img	Varchar (255)		URL or path to the store image

Table 4: products

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	prodId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the product
2	storeId	FOREIGN KEY REFERENCES stores(storeId), NOT NULL	int	Store ID where the product belongs (references stores)
3	prodName	NOT NULL, UNIQUE	varchar(255)	Name of the product
4	prodDesc	text		Description of the product

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
5	prodPrice	NOT NULL	decimal(10, 2)	Price of the product
6	status	varchar(50)		Status of the product (e.g., active, inactive)
7	prod_img	varchar(255)		URL or path to the product image
8	prod_qnty	NOT NULL	int	Quantity of the product in stock
9	prod_add_date	NOT NULL	date	Date the product was added to the store
10	refill_date	varchar(50)		Date the product needs to be restocked (optional)

Table 5: orderItems

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	orderId	FOREIGN KEY REFERENCES orders(orderId), NOT NULL	int	Order ID the item belongs to (references orders)
2	prodId	FOREIGN KEY REFERENCES products(prodId), NOT NULL	int	Product ID of the ordered item (references products)
3	quantity	NOT NULL	int	Quantity of the product ordered

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
4	price	NOT NULL	decimal(10, 2)	Price of the ordered product

Table 6: orders

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	orderId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the order
2	custId	FOREIGN KEY REFERENCES customers(custId), NOT NULL	int	Customer ID who placed the order (references customers)
3	storeId	FOREIGN KEY REFERENCES stores(storeId), NOT NULL	int	Store ID from where the order was placed (references stores)
4	status	varchar(50)		Status of the order (e.g., pending, processing, shipped)
5	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the order was created
6	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the order was last updated

Table 7: courses

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	coId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the course
2	instId	FOREIGN KEY REFERENCES instructors(instId), NOT NULL	int	Instructor ID who created the course (references instructors)
3	coTitle	NOT NULL, UNIQUE	varchar(255)	Title of the course
4	coDesc	text		Description of the course
5	status	varchar(50)		Status of the course (e.g., active, inactive)
6	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the course was created
7	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the course was last updated
8	co_mat	text		Course material (e.g., PDFs, videos)

Table 8: courseStudents

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	coId	FOREIGN KEY REFERENCES courses(coId), NOT NULL	int	Course ID that the student is enrolled in (references courses)
2	custId	FOREIGN KEY REFERENCES customers(custId), NOT NULL	int	Customer ID enrolled in the course (references customers)

Table 9: customers

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	custId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the customer
2	userId	FOREIGN KEY REFERENCES users(userId), NOT NULL	uuid	User ID associated with the customer (references users)
3	custHist	text		Customer's order history
4	wishlist	text		Customer's wishlist of products
5	custCo	text		Courses enrolled in by the customer
6	custAddr	varchar(255)		Customer's shipping address
7	status	varchar(50)		Status of the customer (

Table 10: instructors

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	instId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the instructor
2	userId	FOREIGN KEY REFERENCES users(userId), NOT NULL	uuid	User ID associated with the instructor (references users)
3	instBio	text		Instructor's biography

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
4	instSpcl	text		Instructor's area of specialization
5	instCo	text		Courses created by the instructor
6	instAvail	varchar(50)		Instructor's availability (e.g., full-time, part-time)
7	status	varchar(50)		Status of the instructor (e.g., active, inactive)
8	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the instructor was created
9	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the instructor was last updated

Table 11: payment

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	payId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the payment
2	orderId	FOREIGN KEY REFERENCES orders(orderId), NOT NULL	int	Order ID associated with the payment (references orders)
3	payAmnt	NOT NULL	decimal(10, 2)	Amount paid for the order
4	payStat	NOT NULL	varchar(50)	Payment status (e.g., pending, completed, failed)

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
5	payMethod	NOT NULL	varchar(50)	Payment method used (e.g., credit card, debit card)
6	payDate	NOT NULL	date	Date the payment was made
7	custBilling	varchar(255)		Customer's billing address
8	status	varchar(50)		Status of the payment (e.g., active, refunded)
9	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the payment was created
10	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the payment was last updated

Table 12: feedback

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	feedId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the feedback
2	custId	FOREIGN KEY REFERENCES customers(custId), NOT NULL	int	Customer ID who submitted the feedback (references customers)
3	storeId	FOREIGN KEY REFERENCES stores(storeId), NOT NULL	int	Store ID the feedback is about (references stores)

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
4	relatedOrderId	FOREIGN KEY REFERENCES orders(orderId), NOT NULL	int	Order ID associated with the feedback (references orders)
5	feedType	NOT NULL	varchar(50)	Type of feedback (e.g., product review, service feedback)
6	feedCat	NOT NULL	varchar(50)	Category of feedback (e.g., positive, negative)
7	feedDesc	text		Description of the feedback
8	feedRat	int		Rating provided by the customer (optional)
9	feedStat	varchar(50)		Status of the feedback (e.g., pending, addressed)

Table 13: tutorials

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
1	tutorialId	PRIMARY KEY, AUTO_INCREMENT	int	Unique identifier for the tutorial
2	title	NOT NULL	varchar(255)	Title of the tutorial
3	description	text		Description of the tutorial
4	content	text		Content of the tutorial (e.g., text, video)

Serial No	Field Name	Key Constraints	Datatype (Size)	Description
5	status	varchar(50)		Status of the tutorial (e.g., draft, published)
6	createdAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the tutorial was created
7	updatedAt	NOT NULL, DEFAULT: CURRENT_TIMESTAMP	timestamp	Date and time the tutorial was last updated