

# Tiffinly Database Design

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## 1. addresses

Field	Type	Constraint	Description
address_id	int(11)	PK, NOT NULL	Unique ID for address
user_id	int(11)	FK → users(user_id)	Reference to user
address_type	enum('home','work')	NOT NULL	Type of address
line1	varchar(255)	NOT NULL	Primary address line
line2	varchar(255)	NULL	Secondary address line
city	varchar(100)	NOT NULL	City
state	varchar(100)	NOT NULL	State
pincode	varchar(10)	NOT NULL	Postal code
landmark	varchar(255)	NULL	Landmark details
is_default	tinyint(1)	DEFAULT 1	Marks default address

## 2. deliveries

Field	Type	Constraint	Description
delivery_id	int(11)	PK, NOT NULL	Delivery record ID
subscription_id	int(11)	FK → subscriptions(subscription_id)	Linked subscription
delivery_date	date	NOT NULL	Scheduled date
status	enum('scheduled','out_for_delivery','delivered','cancelled')	DEFAULT 'scheduled'	Delivery status
payment_status	enum('unpaid','paid')	DEFAULT 'unpaid'	Payment state
delivery_time	time	NULL	Scheduled time

### 3. delivery\_assignments

Field	Type	Constraint	Description
assignment_id	int(11)	PK	Assignment ID
subscription_id	int(11)	FK	Subscription linked
delivery_date	date	NOT NULL	Assigned date
partner_id	int(11)	FK → delivery_partner_details(partner_id)	Delivery partner
assigned_at	timestamp	DEFAULT current_timestamp()	Assignment timestamp
status	enum('pending','out_for_delivery','delivered','cancelled')	DEFAULT 'pending'	Delivery progress
meal_type	varchar(20)	NOT NULL	Breakfast/Lunch/Dinner
meal_id	int(11)	FK → meals(meal_id)	Assigned meal
payment_id	int(11)	FK → partner_payments(payment_id)	Payment record
payment_status	enum('unpaid','paid')	DEFAULT 'unpaid'	Partner payment

### 4. delivery\_issues

Field	Type	Constraint	Description
issue_id	int(11)	PK	Issue ID
assignment_id	int(11)	FK	Related assignment
subscription_id	int(11)	FK	Subscription
partner_id	int(11)	FK	Delivery partner
meal_type	varchar(50)	NULL	Meal affected
issue_type	varchar(100)	NULL	Type of issue
status	enum('open','resolved')	DEFAULT 'open'	Resolution state
description	text	NULL	Details

## 5. delivery\_partner\_details

Field	Type	Constraint	Description
partner_id	int(11)	PK	Partner ID (linked to user_id)
vehicle_type	varchar(50)	NOT NULL	Vehicle type
vehicle_number	varchar(20)	NOT NULL	Registration number
license_number	varchar(30)	NOT NULL	License no.
license_file	varchar(255)	NULL	Uploaded license proof
aadhar_number	varchar(20)	NULL	Aadhaar ID
availability	enum('Part-time','Full-time')	NOT NULL	Work type

## 6. delivery\_preferences

Field	Type	Constraint	Description
preference_id	int(11)	PK	Preference ID
user_id	int(11)	FK	User
meal_type	enum('breakfast','lunch','dinner')	NOT NULL	Meal choice
address_id	int(11)	FK → addresses(address_id)	Delivery address
time_slot	varchar(50)	NULL	Preferred time
created_at	timestamp	DEFAULT current_timestamp()	Created
updated_at	timestamp	DEFAULT current_timestamp() ON UPDATE	Updated

## 7. feedback

Field	Type	Constraint	Description
feedback_id	int(11)	PK	Unique feedback ID
user_id	int(11)	FK → users(user_id)	Feedback given by user
feedback_type	enum('meal','service','platform')	NOT NULL	Type of feedback
rating	tinyint(4)	NOT NULL, CHECK (1–5)	Rating value
comments	text	NULL	Additional feedback
meal_description	varchar(255)	NULL	Details of meal (if meal feedback)
delivery_date	date	NULL	Related delivery date (if service feedback)
created_at	timestamp	DEFAULT current_timestamp()	Created timestamp
updated_at	timestamp	DEFAULT current_timestamp() ON UPDATE	Last updated

## 8. inquiries

Field	Type	Constraint	Description
<b>inquiry_id</b>	int(11)	PK	Inquiry ID
<b>user_id</b>	int(11)	FK → users(user_id), NULL allowed	User making inquiry
<b>message</b>	text	NOT NULL	Inquiry content
<b>inquiry_type</b>	varchar(50)	DEFAULT 'general'	Category (general, technical, etc.)
<b>response</b>	text	NULL	Admin response
<b>status</b>	enum('pending','responded','closed')	DEFAULT 'pending'	Inquiry state
<b>created_at</b>	timestamp	DEFAULT current_timestamp()	Logged timestamp

## 9. meals

Field	Type	Constraint	Description
<b>meal_id</b>	int(11)	PK	Unique meal ID
<b>category_id</b>	int(11)	FK → meal_categories(category_id)	Meal category
<b>meal_name</b>	varchar(100)	NOT NULL	Name of meal
<b>description</b>	text	NULL	Meal description
<b>image_url</b>	varchar(255)	NULL	Meal image path
<b>is_active</b>	tinyint(1)	DEFAULT 1	Availability flag

## 10. meal\_categories

Field	Type	Constraint	Description
<b>category_id</b>	int(11)	PK	Category ID
<b>category_name</b>	varchar(50)	NOT NULL	Category name
<b>meal_type</b>	Enum('Breakfast','Lunch','Dinner')	NOT NULL	Meal type
<b>option_type</b>	enum('veg','non_veg')	NOT NULL	Veg/Non-veg option
<b>slot</b>	enum('breakfast','lunch','dinner')	NULL	Delivery slot

## 11. meal\_plans

Field	Type	Constraint	Description
plan_id	int(11)	PK	Plan ID
plan_name	varchar(50)	NOT NULL	Plan name
description	text	NULL	Plan description
plan_type	enum('basic','premium')	NOT NULL	Type of plan
is_active	tinyint(1)	DEFAULT 1	Availability
base_price	decimal(8,2)	NOT NULL	Base price per day

## 12. partner\_payments

Field	Type	Constraint	Description
payment_id	int(11)	PK	Payment ID
partner_id	int(11)	FK → delivery_partner_details(partner_id)	Partner paid
subscription_id	int(11)	FK → subscriptions(subscription_id)	Related subscription
delivery_date	date	NULL	Delivery date
amount	decimal(10,2)	NOT NULL	Payment amount
delivery_count	int(11)	DEFAULT 0	Number of deliveries covered
payment_method	varchar(50)	NOT NULL	Method (e.g., Razorpay)
payment_status	enum('success','failed','pending')	DEFAULT 'success'	Payment state
transaction_ref	varchar(100)	NULL	Transaction reference
created_at	timestamp	DEFAULT current_timestamp()	Created timestamp

### 13. payments

Field	Type	Constraint	Description
payment_id	int(11)	PK	Payment ID
user_id	int(11)	FK → users(user_id)	User making payment
subscription_id	int(11)	FK → subscriptions(subscription_id)	Related subscription
amount	decimal(10,2)	NOT NULL	Paid amount
payment_method	varchar(50)	NOT NULL	Payment method
payment_status	enum('pending','success','failed')	DEFAULT 'pending'	Status
transaction_ref	varchar(100)	NULL	Transaction reference
created_at	timestamp	DEFAULT current_timestamp()	Created timestamp

### 14. plan\_features

Field	Type	Constraint	Description
feature_id	int(11)	PK	Feature ID
plan_id	int(11)	FK → meal_plans(plan_id)	Linked meal plan
feature_text	varchar(255)	NOT NULL	Description of feature
sort_order	int(11)	DEFAULT 0	Ordering

### 15. plan\_images

Field	Type	Constraint	Description
image_id	int(11)	PK	Image ID
plan_id	int(11)	FK → meal_plans(plan_id)	Linked meal plan
image_url	varchar(255)	NOT NULL	Path to image
sort_order	int(11)	DEFAULT 0	Ordering

### 16. subscription\_meals

Field	Type	Constraint	Description
id	int(11)	PK	Record ID
subscription_id	int(11)	FK → subscriptions(subscription_id)	Linked subscription
delivery_date	date	NOT NULL	Date of delivery
meal_type	enum('breakfast','lunch','dinner')	NOT NULL	Meal type
meal_id	int(11)	FK → meals(meal_id)	Actual meal delivered
status	enum('scheduled','cancelled','delivered')	DEFAULT 'scheduled'	Meal delivery status

## 17. plan\_meals

Field	Type	Constraint	Description
plan_meal_id	int(11)	PK	Record ID
plan_id	int(11)	FK → meal_plans(plan_id)	Related plan
day_of_week	enum('MONDAY','TUESDAY','WEDNESDAY','THURSDAY','FRIDAY','SATURDAY','SUNDAY')	NOT NULL	Day of week
meal_type	enum('Breakfast','Lunch','Dinner')	NOT NULL	Type of meal
meal_id	int(11)	FK → meals(meal_id)	Meal linked

## 18. plan\_schedule\_options

Field	Type	Constraint	Description
option_id	int(11)	PK	Unique option ID
plan_id	int(11)	FK → meal_plans(plan_id)	Associated meal plan
schedule_type	enum('weekday','extended','full_week')	NOT NULL	Schedule choice (Mon–Fri, Mon–Sat, Mon–Sun)
multiplier	decimal(5,2)	DEFAULT 1.00	Price multiplier applied for this schedule
description	varchar(255)	NULL	Explanation of the option

## 19. popular\_meals

Field	Type	Constraint	Description
id	int(11)	PK	Record ID
meal_id	int(11)	FK → meals(meal_id)	Linked meal
popularity_score	int(11)	DEFAULT 0	Score/rank based on orders/feedback
created_at	timestamp	DEFAULT current_timestamp()	Added timestamp

## 20. subscriptions

Field	Type	Constraint	Description
<b>subscription_id</b>	int(11)	PK	Subscription ID
<b>user_id</b>	int(11)	FK → users(user_id)	User who subscribed
<b>plan_id</b>	int(11)	FK → meal_plans(plan_id)	Subscribed meal plan
<b>start_date</b>	date	NOT NULL	Start date
<b>end_date</b>	date	NOT NULL	End date
<b>status</b>	enum('active','paused','cancelled','expired')	DEFAULT 'active'	Subscription state
<b>created_at</b>	timestamp	DEFAULT current_timestamp()	Created timestamp
<b>updated_at</b>	timestamp	DEFAULT current_timestamp() ON UPDATE	Last updated

## 21. users

Field	Type	Constraint	Description
<b>user_id</b>	int(11)	PK	User ID
<b>full_name</b>	varchar(100)	NOT NULL	Full name
<b>email</b>	varchar(100)	UNIQUE, NOT NULL	User email
<b>phone</b>	varchar(15)	UNIQUE, NOT NULL	Phone number
<b>password</b>	varchar(255)	NOT NULL	Hashed password
<b>role</b>	enum('user','admin','delivery')	DEFAULT 'user'	Role type
<b>security_question</b>	varchar(255)	NULL	Security question for reset
<b>security_answer</b>	varchar(255)	NULL	Security answer
<b>created_at</b>	timestamp	DEFAULT current_timestamp()	Account created
<b>updated_at</b>	timestamp	DEFAULT current_timestamp() ON UPDATE	Last update



## 22. auth\_tokens

Field	Type	Constraint	Description
<b>id</b>	INT	PK, AUTO_INCREMENT, NOT NULL	Unique token record ID
<b>user_id</b>	INT	FK → users(user_id), NOT NULL, ON DELETE CASCADE	References the user who owns the token
<b>selector</b>	VARCHAR(32)	NOT NULL, INDEX	Public identifier for the token (used for quick lookup)
<b>validator</b>	VARCHAR(64)	NOT NULL	Secret validator part of the token (stored hashed for security)
<b>expires_at</b>	DATETIME	NOT NULL	Expiration date and time for the token