**Subscription Management System**

**CustomerSubscriptions**

| Field | Type | Constraint |
| --- | --- | --- |
| Subscription\_Id | integer | Primary Key, Auto-generated |
| User\_Id | integer | Foreign Key (UserAccounts.User\_Id) |
| Plan\_Id | integer | Foreign Key (SubscriptionPlans.Plan\_Id) |
| Start\_Date | timestamp with time zone | Not Null |
| End\_Date | timestamp with time zone | Not Null |
| Status | text | Not Null |
| Payment\_Status | text | Not Null |
| Payment\_Method | text | Not Null |
| Discount\_Applied | numeric | Nullable |
| Created\_At | timestamp with time zone | Not Null |
| Updated\_At | timestamp with time zone | Not Null |

**Feedbacks Table**

| Field | Type | Constraint |
| --- | --- | --- |
| Feedback\_Id | integer | Primary Key, Auto-generated |
| User\_Id | integer | Foreign Key (UserAccounts.User\_Id) |
| Vendor\_Id | integer | Foreign Key (VendorProfiles.Vendor\_Id) |
| Rating | integer | Not Null |
| Comments | text | Nullable |
| Submitted\_At | timestamp with time zone | Not Null |
| Created\_At | timestamp with time zone | Not Null |
| Updated\_At | timestamp with time zone | Not Null |

**Invoices**

| Field | Type | Constraint |
| --- | --- | --- |
| Invoice\_Id | integer | Primary Key, Auto-generated |
| Payment\_Id | integer | Foreign Key (Payments.Payment\_Id) |
| Invoice\_Number | character varying(50) | Not Null |
| Issue\_Date | timestamp with time zone | Not Null |
| Due\_Date | timestamp with time zone | Not Null |
| Total\_Amount | numeric | Not Null |
| Created\_At | timestamp with time zone | Not Null |
| Updated\_At | timestamp with time zone | Not Null |

**Notifications**

| Field | Type | Constraint |
| --- | --- | --- |
| Notification\_Id | integer | Primary Key, Auto-generated |
| User\_Id | integer | Foreign Key (UserAccounts.User\_Id) |
| Notification\_Type | text | Not Null |
| Message | text | Not Null |
| Status | text | Not Null |
| Created\_At | timestamp with time zone | Not Null |
| Sent\_At | timestamp with time zone | Nullable |
| Subject | character varying(255) | Not Null |
| Is\_Email | boolean | Not Null |

**Payments**

| Field | Type | Constraint |
| --- | --- | --- |
| Payment\_Id | integer | Primary Key, Auto-generated |
| User\_Id | integer | Foreign Key (UserAccounts.User\_Id) |
| Plan\_Id | integer | Foreign Key (SubscriptionPlans.Plan\_Id) |
| Amount | numeric | Not Null |
| Payment\_Date | timestamp with time zone | Not Null |
| Payment\_Method | text | Not Null |
| Transaction\_Id | text | Not Null |
| Payment\_Status | text | Not Null |

**Promotions**

| Field | Type | Constraint |
| --- | --- | --- |
| Promotion\_Id | integer | Primary Key, Auto-generated |
| Promotion\_Code | character varying(50) | Not Null |
| Discount\_Percentage | numeric | Not Null |
| Start\_Date | timestamp with time zone | Not Null |
| End\_Date | timestamp with time zone | Not Null |
| Usage\_Limit | integer | Not Null |
| Created\_At | timestamp with time zone | Not Null |
| Updated\_At | timestamp with time zone | Not Null |
| Plan\_Id | integer | Foreign Key (SubscriptionPlans.Plan\_Id) |

**SubscriptionPlans**

| Field | Type | Constraint |
| --- | --- | --- |
| Plan\_Id | integer | Primary Key, Auto-generated |
| Vendor\_Id | integer | Foreign Key (VendorProfiles.Vendor\_Id) |
| Plan\_Name | character varying(255) | Not Null |
| Description | text | Nullable |
| Price | numeric | Not Null |
| Duration\_In\_Days | integer | Not Null |
| Features | text | Nullable |
| Is\_Active | boolean | Not Null |
| Created\_At | timestamp with time zone | Not Null |
| Updated\_At | timestamp with time zone | Not Null |