# Veri Modeli

## 🧱 Veri Modeli (Entity-Relationship Şeması – Metinsel)

### 👱 User

- `id` (PK)
- `email` (unique)
- `password_hash`
- `full_name`
- `role` (admin / analyst / viewer)
- `created_at`

### 👬 Team

- `id` (PK)
- `name`
- `plan` (free, pro, enterprise)
- `created_at`

### 🔗 UserTeam (Çoktan çoğa ilişki)

- `user_id` (FK → User)
- `team_id` (FK → Team)
- `role_in_team` (owner, member)

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### 📂 LogFile

- `id` (PK)
- `team_id` (FK → Team)
- `filename`

- `file_type` (.log, .csv, .json)
- `uploaded_by` (FK → User)
- `uploaded_at`
- `status` (pending, processing, analyzed, failed)
- `analysis_summary` (JSON) – toplam satır, anomali sayısı, vb.

## 🧾 LogEntry

> Log dosyasındaki her satır için

- `id` (PK)
- `log_file_id` (FK → LogFile)
- `timestamp` (datetime)
- `log_level` (info, warning, error, critical)
- `message`
- `raw_line` (orijinal satır)

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## 🚨 Anomaly

> Tespit edilen şüpheli loglar

- `id` (PK)
- `log_entry_id` (FK → LogEntry)
- `anomaly_type` (regex_match, outlier, pattern_deviation vs.)
- `severity` (low, medium, high)
- `description`
- `detected_at`

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## 📣 Notification

> Gönderilen e-posta veya slack uyarıları

- `id` (PK)
- `team_id` (FK → Team)
- `channel` (email, slack)
- `trigger_type` (new_anomaly, critical_anomaly, upload_complete)
- `status` (sent, failed)
- `sent_at`

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### ⚙️ UserSettings

- `user_id` (FK → User)
- `notification_email` (bool)
- `notification_slack` (bool)
- `timezone`
- `default_log_view` (last_7_days / all)

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## 🔗 İlişki Şeması Özeti

```
sql
KopyalaDüzenle
User ⟷ Team (many-to-many)
Team → LogFile (one-to-many)
LogFile → LogEntry (one-to-many)
LogEntry → Anomaly (zero-to-one)
Team → Notification (one-to-many)
User → UserSettings (one-to-one)
```

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## 🛢️ Tavsiye Edilen Teknoloji

- **Veritabanı:** PostgreSQL
- **Log Entry tablosu** için:
  - Büyük veri desteklemesi için: partitioning + indexing
  - Gerekirse: TimescaleDB extension