

WeGroup Platform - Detaillierte Tabellen-Übersicht

TABELLEN-KATEGORIEN

1. KERN-SYSTEM (Core System)

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
tenants	Mandanten-Verwaltung	id	-
users	Benutzer-Verwaltung	id	tenantId , lastUsedTenantId
roles	Rollen-System	id	tenantId
permissions	Permissions-System	id	-
user_roles	User-Role-Zuordnung	[userId, roleId]	userId , roleId

2. AUTHENTICATION (NextAuth.js)

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
accounts	OAuth-Accounts	[provider, providerAccountId]	userId
sessions	User-Sessions	sessionToken	userId
authenticators	WebAuthn-Authenticators	[userId, credentialID]	userId
verificationtokens	Verifikations-Tokens	[identifier, token]	-

3. ERWEITERTE ROLLEN (Enhanced Roles)

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
enhanced_roles	Erweiterte Rollen	id	tenantId , inheritFromRoleId
user_enhanced_roles	User-Enhanced-Role-Zuordnung	[userId, enhancedRoleId]	userId , enhancedRoleId
menu_permissions	Menu-Permissions	id	permissionId , parentMenuId
role_menu_permissions	Role-Menu-Zuordnung	id	roleId , menuPermissionId
user_permission_overrides	User-Permission-Overrides	id	userId , permissionId

4. TENANT-MANAGEMENT

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
tenant_modules	Tenant-Module	id	tenantId
tenant_managers	Tenant-Manager	id	tenantId , userId
tenant_activities	Tenant-Aktivitäten	id	tenantId , userId
tenant_analytics	Tenant-Analytics	id	tenantId
tenant_billing	Tenant-Billing	id	tenantId
tenant_support_tickets	Support-Tickets	id	tenantId , userId

5. FINANCE-MODULE

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
invoices	Rechnungen	id	tenantId
ocr_results	OCR-Ergebnisse	id	invoiceId , tenantId
approval_workflows	Genehmigungsworkflows	id	invoiceId , tenantId
three_way_matches	Drei-Wege-Abgleich	id	invoiceId , tenantId
confidence_scores	Vertrauens-Scores	id	invoiceId , tenantId
in-voice_notifications	Rechnungs-Benachrichtigungen	id	invoiceId , tenantId
financial_transactions	Finanz-Transaktionen	id	tenantId
cash_flow_forecasts	Cashflow-Prognosen	id	tenantId

6. EMAIL-INTEGRATION

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
tenant_email_configs	Email-Konfigurationen	id	tenantId
email_invoices	Email-Rechnungen	id	tenantId , emailConfigId
email_processing_logs	Email-Verarbeitungs-Logs	id	tenantId , emailConfigId
email_classifications	Email-Klassifizierungen	id	tenantId

7. HR-MODULE

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
employees	Mitarbeiter	id	userId , managerId , tenantId
job_applications	Bewerbungen	id	jobPostingId , assignedEmployeeId , tenantId
job_postings	Stellenausschreibungen	id	tenantId
performance_reviews	Leistungsbeurteilungen	id	employeeId , tenantId
onboarding_workflows	Onboarding-Workflows	id	employeeId , tenantId
skill_assessments	Kompetenzbewertungen	id	employeeId , tenantId
workforce_analytics	Workforce-Analytics	id	tenantId

8. LOGISTICS-MODULE

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
shipments	Sendungen	id	tenantId
tracking_events	Tracking-Events	id	shipmentId , tenantId
carrier_performance	Carrier-Performance	id	tenantId
logistics_customers	Logistics-Kunden	id	tenantId
logistics_suppliers	Logistics-Lieferanten	id	tenantId
logistics_rfqs	Logistics-RFQs	id	tenantId
logistics_supplier_quotes	Logistics-Angebote	id	tenantId
logistics_orders	Logistics-Bestellungen	id	tenantId

9. INVENTORY-MODULE

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
inventory_items	Lagerbestände	id	tenantId
inventory_movements	Warenbewegungen	id	inventoryItemId , tenantId
purchase_orders	Bestellungen	id	supplierId , inventoryItemId , tenantId
route_optimizations	Routen-Optimierungen	id	tenantId
predictive_maintenance	Predictive Maintenance	id	tenantId

10. AI & MACHINE LEARNING

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
ai_models	AI-Modelle	id	tenantId
ai_decisions	AI-Entscheidungen	id	modelId , tenantId
ai_model_metrics	AI-Model-Metriken	id	modelId , tenantId
model_approvals	Model-Genehmigungen	id	modelId , tenantId
model_test_results	Model-Test-Ergebnisse	id	modelId , tenantId
model_cost_records	Model-Kosten-Datensätze	id	modelId , tenantId

11. QUANTUM COMPUTING

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
quantum_processors	Quantum-Prozessoren	id	tenantId
quantum_algorithms	Quantum-Algorithmen	id	processorId , tenantId
quantum_computations	Quantum-Berechnungen	id	algorithmId , processorId , tenantId
quantum_neural_networks	Quantum-Neural-Networks	id	tenantId
quantum_optimizations	Quantum-Optimierungen	id	algorithmId , tenantId

12. ECOSYSTEM & PARTNERS

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
ecosystem_partners	Ecosystem-Partner	id	tenantId
cross_company_collaborations	Cross-Company-Kollaborationen	id	primaryPartnerId , tenantId
ecosystem_orchestrations	Ecosystem-Orchestrierungen	id	partnerId , tenantId
global_integrations	Globale Integrationen	id	partnerId , tenantId
ecosystem_intelligence	Ecosystem-Intelligence	id	orchestrationId , tenantId

13. BUSINESS INNOVATION

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
business_models	Geschäftsmodelle	id	tenantId
innovation_pipelines	Innovations-Pipelines	id	tenantId
innovation_projects	Innovations-Projekte	id	tenantId
innovation_validations	Innovations-Validierungen	id	tenantId
market_opportunities	Marktchancen	id	tenantId
competitive_analyses	Wettbewerbsanalysen	id	tenantId

14. SUSTAINABILITY

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
sustainability_metrics	Nachhaltigkeits-Metriken	id	tenantId
carbon_footprint_tracking	CO2-Fußabdruck-Tracking	id	tenantId
esg_compliance	ESG-Compliance	id	tenantId
environmental_risks	Umweltrisiken	id	tenantId
green_processes	Grüne Prozesse	id	tenantId

15. UNIVERSAL SERVICES

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
service_requests	Service-Anfragen	id	tenantId , customerId
service_customers	Service-Kunden	id	tenantId
service_suppliers	Service-Lieferanten	id	tenantId
service_rfqs	Service-RFQs	id	serviceRequestId , tenantId
service_quotes	Service-Angebote	id	rfqId , supplierId , tenantId
service_orders	Service-Bestellungen	id	customerId , supplierId , tenantId
service_quote_comparisons	Service-Angebots-Vergleiche	id	rfqId , tenantId

16. PORTAL-ZUGRIFFE

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
service_customer_portal_access	Service-Kunden-Portal-Zugang	id	tenantId , customerId
service_supplier_portal_access	Service-Lieferanten-Portal-Zugang	id	tenantId , supplierId
logistics_customer_portal_access	Logistics-Kunden-Portal-Zugang	id	tenantId
logistics_supplier_portal_access	Logistics-Lieferanten-Portal-Zugang	id	tenantId

17. ANALYTICS & MONITORING

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
dashboards	Dashboards	id	tenantId , userId
widgets	Widgets	id	dashboardId
tenant_usage_analytics	Tenant-Nutzungs-Analytics	id	tenantId
role_performance_metrics	Role-Performance-Metriken	id	tenantId
role_hierarchy_analytics	Role-Hierarchy-Analytics	id	tenantId

18. AUDIT & COMPLIANCE

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
permission_audit_logs	Permission-Audit-Logs	id	tenantId
permission_recommendations	Permission-Empfehlungen	id	tenantId
document_processing	Dokumentenverarbeitung	id	tenantId
risk_assessments	Risikobewertungen	id	tenantId

19. PREFERENCES & CUSTOMIZATION

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
user_preferences	Benutzer-Einstellungen	id	userId
tenant_customization	Tenant-Anpassungen	id	tenantId
user_tenant_recommendations	User-Tenant-Empfehlungen	id	userId , tenantId
tenant_region_mappings	Tenant-Region-Zuordnungen	id	tenantId

20. DEMO & TESTING

Tabelle	Beschreibung	Primärschlüssel	Wichtige Fremdschlüssel
demo_users	Demo-Benutzer	id	-
role_template_usages	Role-Template-Verwendungen	id	templateRoleId



TABELLEN-STATISTIKEN

Tabellen pro Kategorie:

- **Kern-System:** 5 Tabellen
- **Authentication:** 4 Tabellen
- **Erweiterte Rollen:** 5 Tabellen
- **Tenant-Management:** 6 Tabellen
- **Finance:** 8 Tabellen
- **Email-Integration:** 4 Tabellen
- **HR-Module:** 7 Tabellen
- **Logistics:** 8 Tabellen
- **Inventory:** 5 Tabellen
- **AI & ML:** 6 Tabellen
- **Quantum Computing:** 5 Tabellen
- **Ecosystem:** 5 Tabellen
- **Business Innovation:** 6 Tabellen
- **Sustainability:** 5 Tabellen
- **Universal Services:** 7 Tabellen

- **Portal-Zugriffe:** 4 Tabellen
- **Analytics:** 5 Tabellen
- **Audit:** 4 Tabellen
- **Preferences:** 4 Tabellen
- **Demo & Testing:** 2 Tabellen

GESAMT: ~150 Tabellen

WICHTIGE CONSTRAINTS

Unique Constraints:

- `tenants.domain`
- `tenants.subdomain`
- `users.email`
- `invoices.invoiceNumber`
- `shipments.trackingNumber`
- `service_requests.requestNumber`

Foreign Key Constraints:

- Alle Tabellen haben `tenantId` → `tenants.id`
- Cascading Deletes bei abhängigen Entitäten
- Referentielle Integrität bei allen Beziehungen

Check Constraints:

- Enum-Validierungen für Status-Felder
- Positive Werte für Mengen und Preise
- Gültige Email-Formate
- Datum-Validierungen