**1. User**

* id (PK)
* username
* email
* password
* user\_role\_id (FK a UserRole)
* created\_at
* updated\_at

**2. UserRole**

* id (PK)
* role\_name (ADMIN, BUYER, WORKER, MANAGER, etc.)

**3. ProductionLine (Líneas de producción)**

* id (PK)
* line\_name
* location
* supervisor\_id (FK a User)
* status (ACTIVE, INACTIVE)

**4. ProductionOrder (Órdenes de producción)**

* id (PK)
* order\_code
* production\_line\_id (FK a ProductionLine)
* material\_id (FK a Material)
* quantity
* scheduled\_date
* status (PLANNED, IN\_PROGRESS, COMPLETED, CANCELLED)

**5. Material**

* id (PK)
* material\_name
* description
* unit (KG, PCS, M, etc.)
* reorder\_level (stock mínimo antes de generar compra)

**6. Inventory (Control de inventario)**

* id (PK)
* material\_id (FK a Material)
* current\_stock
* last\_updated

**7. PurchaseOrder (Órdenes de compra de materiales)**

* id (PK)
* order\_number
* material\_id (FK a Material)
* quantity
* order\_date
* status (PENDING, APPROVED, RECEIVED, CANCELLED)
* requested\_by (FK a User)