

DATA DICTIONARY

Smart Inventory Optimization System by RUREBWAYIRE AMPOZE Ariella (27640)

Table	Column	Type	Constraints	Purpose
suppliers	supplier_id	NUMBER	PK	Supplier identifier
suppliers	supplier_name	VARCHAR2(100)	NOT NULL	Supplier name
suppliers	contact_info	VARCHAR2(200)		Email/phone/address
employees	employee_id	NUMBER	PK	Employee id
employees	username	VARCHAR2(50)	NOT NULL, UNIQUE	Login or id string
employees	full_name	VARCHAR2(120)		Employee's full name
employees	roll_name	VARCHAR2(50)		Employee's roll name
products	product_id	NUMBER	PK	Product id
products	product_name	VARCHAR2(150)	NOT NULL	Human-readable name
products	category	VARCHAR2(50)		Product category
products	unit_price	NUMBER(12,2)		Price per unit
products	stock_quantity	NUMBER	NOT NULL, DEFAULT 0	Current on-hand qty
products	reorder_level	NUMBER	NOT NULL, DEFAULT 0	Reorder threshold
products	supplier_id	NUMBER	FK -> suppliers(supplier_id)	Preferred supplier
sales	sale_id	NUMBER	PK	Sales transaction id
sales	product_id	NUMBER	FK -> products(product_id)	Sold product
sales	quantity_sold	NUMBER	NOT NULL	Quantity sold
sales	sale_date	DATE	NOT NULL, DEFAULT SYSDATE	When sale occurred
sales	created_by	VARCHAR2(50)		username/employee who recorded
inventory_log	log_id	NUMBER	PK	Inventory change id
inventory_log	product_id	NUMBER	FK -> products(product_id)	Referring to the sold product
inventory_log	action_type	VARCHAR2(20)	NOT NULL	SALE / RESTOCK / ADJUST
inventory_log	quantity_changed	NUMBER	NOT NULL	Positive for inbound, negative for outbound
inventory_log	log_date	DATE	NOT NULL, DEFAULT SYSDATE	When sale/ restock/ adjust occured
inventory_log	created_by	VARCHAR2(50)		username/employee who recorded
reorder_requests	request_id	NUMBER	PK	Reorder request id
reorder_requests	product_id	NUMBER	FK -> products(product_id)	Referring to the sold product
reorder_requests	reorder_quantity	NUMBER	NOT NULL	Suggested qty to order
reorder_requests	request_date	DATE	NOT NULL, DEFAULT SYSDATE	When reorder request occured
reorder_requests	status	VARCHAR2(20)	DEFAULT 'PENDING'	PENDING/APPROVED/REJECTED
reorder_requests	created_by	VARCHAR2(50)		username/employee who recorded
holidays	holiday_date	DATE	PK	Holiday used by business rule
holidays	description	VARCHAR2(200)		Description of holidays observed
audit_log	log_id	NUMBER	PK	Audit record id
audit_log	object_name	VARCHAR2(128)		Table/object touched
audit_log	action_type	VARCHAR2(10)		INSERT/UPDATE/DELETE
audit_log	action_date	DATE	NOT NULL, DEFAULT SYSDATE	When insert/update/delete occured
audit_log	username	VARCHAR2(50)		Who performed action
audit_log	status	VARCHAR2(20)		ALLOWED/DENIED
audit_log	message	VARCHAR2(4000)		Any comments that might be added