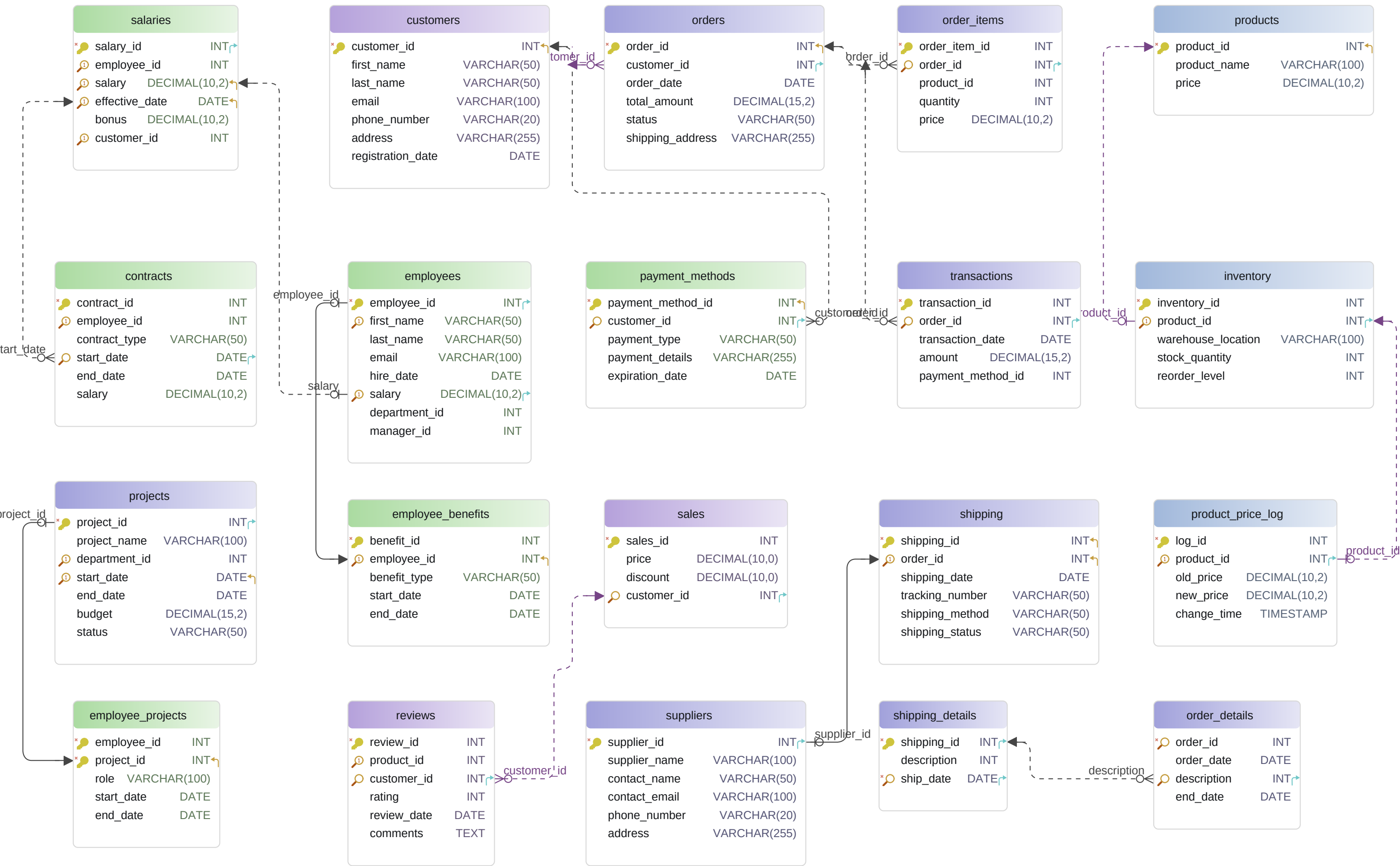




Main Diagram

Table contracts			
Idx	Name	Data Type	Description
* Pk	contract_id	INT	This column contains private informations.
Unq	employee_id	INT	
	contract_type	VARCHAR(50)	
Idx	start_date	DATE	
	end_date	DATE	
	salary	DECIMAL(10,2)	
Indexes			
Type	Name	On	Description
Pk	pk_contracts	contract_id	
Unq	unq_contracts_employee_id	employee_id	
	fk_contracts_salaries	start_date	
Foreign Keys			
Type	Name	On	Description
	fk_contracts_salaries (start_date) ref salaries (effective_date)		
Options			
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci			

Table customers		
Idx	Name	Data Type
* Pk	customer_id	INT
	first_name	VARCHAR(50)
	last_name	VARCHAR(50)
	email	VARCHAR(100)
	phone_number	VARCHAR(20)
	address	VARCHAR(255)
	registration_date	DATE
Indexes		
Type	Name	On
Pk	pk_customers	customer_id
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table employee_benefits		
Idx	Name	Data Type
* Pk	benefit_id	INT
Unq	employee_id	INT
	benefit_type	VARCHAR(50)
	start_date	DATE
	end_date	DATE
Indexes		
Type	Name	On
Pk	pk_employee_benefits	benefit_id
Unq	unq_employee_benefits_employee_id	employee_id
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table employee_projects		
Idx	Name	Data Type
* Pk	employee_id	INT
* Pk	project_id	INT
	role	VARCHAR(100)
	start_date	DATE
	end_date	DATE
Indexes		
Type	Name	On
Pk	pk_employee_projects	employee_id, project_id
Unq	unq_employee_projects_project_id	project_id
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table employees			
Idx	Name	Data Type	Description
This field contains personal informations			
* Pk	employee_id	INT	
Unq	first_name	VARCHAR(50)	
	last_name	VARCHAR(50)	
	email	VARCHAR(100)	
	hire_date	DATE	
Unq	salary	DECIMAL(10,2)	This column contains personal informations.

Table employees			
	department_id	INT	
	manager_id	INT	
Indexes			
Type	Name	On	Description
Pk	pk_employees	employee_id	
Unq	unq_employees_salary	salary	
Unq	unq_employees_first_name	first_name	
Foreign Keys			
Type	Name	On	Description
	fk_employees_employee_benefits (employee_id) ref employee_benefits (employee_id)		
	fk_employees_employee_projects (employee_id) ref employee_projects (project_id)		
	fk_employees_salaries (salary) ref salaries (salary)		
Options			
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci			

Table inventory		
Idx	Name	Data Type
* Pk	inventory_id	INT
Unq	product_id	INT
	warehouse_location	VARCHAR(100)
	stock_quantity	INT
	reorder_level	INT
Indexes		
Type	Name	On
Pk	pk_inventory	inventory_id
Unq	unq_inventory_product_id	product_id
Foreign Keys		
Type	Name	On
Vir	fk_inventory_products (product_id) ref products (product_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table order_details		
Idx	Name	Data Type
* Idx	order_id	INT

Table order_details		
	order_date	DATE
Idx	description	INT
	end_date	DATE DEFAULT curdate()
Indexes		
Type	Name	On
	fk_order_details_shipping_details	description
	pk_order_details	order_id
Foreign Keys		
Type	Name	On
	fk_order_details_shipping_details (description) ref shipping_details (shipping_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table order_items		
Idx	Name	Data Type
* Pk	order_item_id	INT
Idx	order_id	INT
	product_id	INT
	quantity	INT
	price	DECIMAL(10,2)
Indexes		
Type	Name	On
Pk	pk_order_items	order_item_id
	fk_order_items_orders	order_id
Foreign Keys		
Type	Name	On
	fk_order_items_orders (order_id) ref orders (order_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table orders		
Idx	Name	Data Type
* Pk	order_id	INT
	customer_id	INT
	order_date	DATE
	total_amount	DECIMAL(15,2)

Table orders		
	status	VARCHAR(50)
	shipping_address	VARCHAR(255)
Indexes		
Type	Name	On
Pk	pk_orders	order_id
Foreign Keys		
Type	Name	On
Vir	fk_orders_customers (customer_id) ref customers (customer_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table payment_methods		
Idx	Name	Data Type
* Pk	payment_method_id	INT
Idx	customer_id	INT
	payment_type	VARCHAR(50)
	payment_details	VARCHAR(255)
	expiration_date	DATE
Indexes		
Type	Name	On
Pk	pk_payment_methods	payment_method_id
	fk_payment_methods_customers	customer_id
Foreign Keys		
Type	Name	On
	fk_payment_methods_customers (customer_id) ref customers (customer_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table product_price_log		
Idx	Name	Data Type
* Pk	log_id	INT AUTO_INCREMENT
Unq	product_id	INT
	old_price	DECIMAL(10,2)
	new_price	DECIMAL(10,2)
	change_time	TIMESTAMP DEFAULT CURRENT_TIMESTAMP
Indexes		

Table product_price_log		
Type	Name	On
Pk	pk_product_price_log	log_id
Unq	unq_product_price_log_product_id	product_id
Foreign Keys		
Type	Name	On
Vir	fk_product_price_log_inventory (product_id) ref inventory (product_id)	
Options		
ENGINE=InnoDB AUTO_INCREMENT=201 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table products		
Idx	Name	Data Type
* Pk	product_id	INT
	product_name	VARCHAR(100)
	price	DECIMAL(10,2)
Indexes		
Type	Name	On
Pk	pk_products	product_id
Triggers		
	Name	Definition
	before_product_price_update	CREATE TRIGGER \${nameWithSchemaName} BEFORE UPDATE ON products FOR EACH ROW BEGIN IF OLD.price <> NEW.price THEN INSERT INTO company.product_price_log (product_id, old_price, new_price) VALUES (OLD.product_id, OLD.price, NEW.price); END IF; END
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table projects		
Idx	Name	Data Type
* Pk	project_id	INT
	project_name	VARCHAR(100)
Unq	department_id	INT
Unq	start_date	DATE
	end_date	DATE
	budget	DECIMAL(15,2)
	status	VARCHAR(50)

Table projects		
Indexes		
Type	Name	On
Pk	pk_projects	project_id
Unq	unq_projects_department_id	department_id
Unq	unq_projects_start_date	start_date
Foreign Keys		
Type	Name	On
	fk_projects_employee_projects (project_id) ref employee_projects (project_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table reviews		
Idx	Name	Data Type
* Pk	review_id	INT
Unq	product_id	INT
Idx	customer_id	INT
	rating	INT
	review_date	DATE
	comments	TEXT
Indexes		
Type	Name	On
Pk	pk_reviews	review_id
Unq	unq_reviews_product_id	product_id
	fk_reviews_customers	customer_id
Foreign Keys		
Type	Name	On
	fk_reviews_customers (customer_id) ref customers (customer_id)	
Vir	fk_reviews_sales (customer_id) ref sales (customer_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table salaries		
Idx	Name	Data Type
* Pk	salary_id	INT
Unq	employee_id	INT
Unq	salary	DECIMAL(10,2)

Table salaries		
Unq	effective_date	DATE
	bonus	DECIMAL(10,2)
Unq	customer_id	INT
Indexes		
Type	Name	On
Pk	pk_salaries	salary_id
Unq	uniq_salaries_salary	salary
Unq	uniq_salaries_employee_id	employee_id
Unq	uniq_salaries_effective_date	effective_date
Unq	uniq_salaries_customer_id	customer_id
Foreign Keys		
Type	Name	On
	fk_salaries_customers (salary_id) ref customers (customer_id)	
	fk_salaries_payment_methods (salary_id) ref payment_methods (payment_method_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table sales		
Idx	Name	Data Type
* Pk	sales_id	INT
	price	DECIMAL(10,0)
	discount	DECIMAL(10,0)
Idx	customer_id	INT
Indexes		
Type	Name	On
Pk	pk_sales	sales_id
	fk_sales_customers	customer_id
Foreign Keys		
Type	Name	On
	fk_sales_customers (customer_id) ref customers (customer_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table shipping		
Idx	Name	Data Type
* Pk	shipping_id	INT

Table shipping		
Unq	order_id	INT
	shipping_date	DATE
	tracking_number	VARCHAR(50)
	shipping_method	VARCHAR(50)
	shipping_status	VARCHAR(50)
Indexes		
Type	Name	On
Pk	pk_shipping	shipping_id
Unq	uniq_shipping_order_id	order_id
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table shipping_details		
Idx	Name	Data Type
* Pk	shipping_id	INT
	description	INT
* Idx	ship_date	DATE DEFAULT curdate()
Indexes		
Type	Name	On
Pk	pk_shipping_details	shipping_id
	idx_shipping_details_ship_date	ship_date
Foreign Keys		
Type	Name	On
	fk_shipping_details_projects (ship_date) ref projects (start_date)	
	fk_shipping_details_shipping (shipping_id) ref shipping (shipping_id)	
Options		
ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci		

Table suppliers		
Idx	Name	Data Type
* Pk	supplier_id	INT
	supplier_name	VARCHAR(100)
	contact_name	VARCHAR(50)
	contact_email	VARCHAR(100)
	phone_number	VARCHAR(20)
	address	VARCHAR(255)

Table suppliers

Indexes

Type	Name	On
Pk	pk_suppliers	supplier_id

Foreign Keys

Type	Name	On
	fk_suppliers_shipping (supplier_id) ref shipping (order_id)	

Options

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

Table transactions

Idx	Name	Data Type
* Pk	transaction_id	INT
Idx	order_id	INT
	transaction_date	DATE
	amount	DECIMAL(15,2)
	payment_method_id	INT

Indexes

Type	Name	On
Pk	pk_transactions	transaction_id
	fk_transactions_orders	order_id

Foreign Keys

Type	Name	On
	fk_transactions_orders (order_id) ref orders (order_id)	

Options

ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci