

## DEPARTMENT

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
department_id	PK		SERIAL			
department_name			ENUM	NOT NULL		Vehicle Inspection & Diagnostics, Mechanical Department, Electrical Systems Department, Body & Repair Department
notes			TEXT			

## DEPARTMENT\_ROLE

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
role_id	PK/FK		INT	NOT NULL	roles.role_id	
dep_id	PK/FK		INT	NOT NULL	departments.department_id	

## CUSTOMER

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
cust_id	PK		SERIAL			
membership_id	FK		INT	NOT NULL	country.country_id	
communication_id			VARCHAR(50)	NOT NULL	communication_ch	

					annel.communication_id	
cust_first_name			VARCHAR(50)	NOT NULL		
cust_last_name			VARCHAR(50)	NOT NULL		
cust_phone_number			VARCHAR(30)	UNIQUE		
cust_email			VARCHAR(30)	UNIQUE		
cust_addr1			VARCHAR(30)	NOT NULL		
cust_addr2			VARCHAR(10)			
cust_postcode			VARCHAR(10)	NOT NULL		
cust_city		Y	VARCHAR(100)	NOT NULL		

STAFF						
Attribute_Name	KEY	INDEX	Data Type & Size	Domains & Constraints	FK Reference	Description
staff_id	PK		SERIAL			
staff_first_name			VARCHAR(50)	NOT NULL		
staff_last_name			VARCHAR(50)	NOT NULL		
staff_phone_number			VARCHAR(15)	UNIQUE		
staff_email		Y	VARCHAR(70)	NOT NULL		
staff_addr_line_1			VARCHAR(50)	NOT NULL		
staff_addr_line_2			VARCHAR(50)			
staff_postcode			VARCHAR(50)	NOT NULL		

staff_city			VARCHAR(10)	NOT NULL		
role_type			ENUM	NOT NULL		Administrator, Manager, Technician, Support staff
salary			DECIMAL(10,2)	NOT NULL		

## FEEDBACK

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
feedback_id	PK		SERIAL			
cust_id	FK		INT		customer.cust_id	
branch_id	FK		INT		branch.branch_id	
feedback_sentiment			ENUM			ENUM = POSITIVE/NEGATIVE/NEUTRAL
feedback_date			DATE			
notes			TEXT			

## STAFF\_REVIEW

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>		<b>FK Reference</b>	<b>Description</b>
review_id	PK		SERIAL				
staff_id	FK		INT		staff.staff_id		
review_date			DATE				
overall_rating			DECIMAL(4,2)				
notes			TEXT				

BOOKING						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
booking_id	PK		SERIAL			
branch_id	FK		INT	NOT NULL	branch.branch_id	
vehicle_id	FK		INT	NOT NULL	vehicle.vehicle_id	
booking_date			DATE			
booking_time			DATETIME			
booking_status			ENUM			NOT STARTED/ IN PROGRESS/ FINISHED
notes			TEXT			

BOOKING_Reminder						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
reminder_id	PK		SERIAL			
cust_id	FK		INT	NOT NULL	customer.cust_id	
booking_id	FK		INT	NOT NULL	booking.booking_id	

BOOKING_Detail						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
booking_id	PK/FK		INT	NOT NULL		

branch_id	PK/FK		INT	NOT NULL	branch.branch_id	
invoice_id	PK/FK		INT	NOT NULL	invoice.invoice_id	
part_id	PK/FK		INT		part.part_id	
staff_id	PK/FK		INT		staff.staff_id	
service_id	PK/FK		INT		service.service_id	
bay_id	PK/FK		INT		workshop_bay.bay_id	

INVOICE						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
invoice_id	PK		SERIAL			
invoice_date			DATE	NOT NULL		
total_cost			DECIMAL(10,2)	NOT NULL		

PAYMENT						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
payment_id	PK		SERIAL			
invoice_id	FK		INT	NOT NULL	invoice.invoice_id	

payment_date			DATE	NOT NULL		
amount			DECIMAL(10,2)	NOT NULL		
payment_method			ENUM			ENUM = CASH/CARD/CHEQUE

## REFUND

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
refund_id	PK		SERIAL			
invoice_id	FK		INT		invoice.invoice_id	
refund_amount			DECIMAL(10,2)			
refund_date			DATE			

## INSTALLMENT

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
installement_id	PK		SERIAL			
invoice_id	FK		INT	NOT NULL		
amount			DECIMAL(10,2)			
due_date			DATE			

## WARRANTY

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
warranty_id	PK		SERIAL			
booking_id	FK		INT	NOT NULL	booking.booking_id	
service_id	FK		INT	NOT NULL	service.service_id	
Warranty_type			VARCHAR(100)			
warranty_period			INT			
start_date			DATE			
end_date			DATE			

## PART

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
part_id	PK		SERIAL			
part_name			VARCHAR(100)	NOT NULL		
part_price			DECIMAL(5,2)	NOT NULL		
quantity			INT	NOT NULL		
recorder_level			INT			

## SUPPLIER

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	
supplier_id	PK		SERIAL			
supplier_name			VARCHAR(100)			
supplier_email		Y	VARCHAR(100)	UNIQUE		
supplier_phone_number			VARCHAR(11)	UNIQUE		
supplier_addr1			VARCHAR(100)	NOT NULL		
supplier_addr2			VARCHAR(100)			
supplier_post_code			VARCHAR(10)	NOT NULL		
supplier_country			VARCHAR(20)	NOT NULL		
notes			TEXT			

## SUPPLIED\_PART

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
parts_id	PK/FK		INT	NOT NULL	part.part_id	
supplier_id	PK.FK		INT	NOT NULL	supplier.supplier_id	

## VEHICLE

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>

vehicle_id	PK		SERIAL			
cust_id	FK		INT	NOT NULL	customer.cust_id	
vehicle_model			VARCHAR(30)	NOT NULL		
year_manufactured			CHAR(4)	NOT NULL		
VIN			VARCHAR(20)	NOT NULL		
liscence_plate			VARCHAR(10)	NOT NULL		
vehicle_colour			VARCHAR(10)	NOT NULL		
mot_valid			ENUM	NOT NULL		Valid, Expired, Not required, Unknown
notes			TEXT			

### COMMUNICATION\_CHANNEL

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
communication_id	PK		SERIAL			
preferred_method			ENUM	NOT NULL		ENUM = online/phone/in person
last_update			DATE			

### STAFF\_SHIFT

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>

staff_shift_id	PK		SERIAL			
staff_id	FK		INT		staff.staff_id	
shift_id	FK		INT		shift.shift_id	
date			DATE			
status			VARCHAR(20)			
clock_in_time			DATETIME			
clock_out_time			DATETIME			

### SHIFT

Attribute_Name	KEY	INDEX	Data Type & Size	Domains & Constraints	FK Reference	Description
shift_id	PK		SERIAL			
branch_id	FK		INT	NOT NULL	branch.branch_id	
start_time			TIME	NOT NULL		
end_time			TIME	NOT NULL		
shift_name			VARCHAR(50)	NOT NULL		

### STAFF\_CERTIFICATES

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK/FK		INT	NOT NULL	staff.staff_id	
certificate_id	PK/FK		INT	NOT NULL	certificates.certificate_id	

## MEMBERSHIP

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
membership_id	PK		SERIAL			
membership_name			ENUM	NOT NULL		enum = gold/silver/bronze/basic
amount_required			INT			

## CERTIFICATES

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
certificate_id	PK		INT			
certificate_name			VARCHAR(100)	NOT NULL		
date_aquired			DATE			
expiry_date			DATE			

## ROLE\_CERTIFICATES

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
role_id	PK/FK		INT	roles.role_id		
certificate_id	PK/FK		INT	certificates.certificate_id		

ROLES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
role_id	PK		INT			
role_name			VARCHAR(100)			
salary			DECIMAL(10,2)			
role_description			VARCHAR(300)			

STAFF_ROLES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK/FK		INT	NOT NULL	staff.staff_id	
role_id	PK/FK		INT	NOT NULL	roles.role_id	

## COMPLIANCE\_RECORDS(maybe)

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>

## BRANCH\_STAFF

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK/FK		INT	NOT NULL	staff.staff_id	
branch_id	PK/FK		INT	NOT NULL	branch.branch_id	

## BRANCH

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
branch_id	PK		SERIAL			
branch_name			VARCHAR(100)	NOT NULL		
branch_postcode			VARCHAR(10)			
branch_address			VARCHAR(100)			
branch_city			VARCHAR(50)			
branch_email			VARCHAR(100)			
manager			BOOLEAN			

opening_time			TIME			
closing_time			TIME			

### SERVICE

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
service_id	PK		INT			
service_name			VARCHAR(100)			
service_cost			DECIMAL(6,2)			
elegible_warranty			BOOLEAN			

### SERVICE\_TASK

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
service_id	PK/FK		INT	NOT NULL	service.service_id	
task_id	PK/FK		INT	NOT NULL	task.task_id	

### WORKSHOP\_BAY

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>

bay_id	PK		SERIAL			
branch_id	FK		INT		branch.branch_id	
bay_number			VARCHAR(10)			
bay_type			VARCHAR(50)			
vehicle_capacity			INT			

### INSPECTION

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
inspection_id	PK		SERIAL			
bay_id	FK		INT	NOT NULL	workshop_bay.bay_id	
inspection_status			ENUM			ENUM=PASS/FAIL
inspection_date			DATE	NOT NULL		
notes			TEXT			

### INVENTORY\_TRANSACTION

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type &amp; Size</i>	<i>Domains &amp; Constraints</i>	<i>FK Reference</i>	<i>Description</i>
inventory_id	PK		SERIAL			
part_id	FK		INT		part.part_id	
transaction_type			ENUM	NOT NULL		USAGE/RETURN/ADJUSTMENT
quantity			INT	NOT NULL		

transaction_date			DATETIME	NOT NULL		
notes			TEXT			

## TASK

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
task_id	PK		SERIAL			
task_name			VARCHAR(100)	NOT NULL		
notes			TEXT			

## BENEFIT

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
benefit_id	PK		SERIAL			
benefit_name			VARCHAR(100)	NOT NULL		
notes			TEXT			

## MEMBERSHIP\_BENEFIT

<b>Attribute_Name</b>	<b>KEY</b>	<b>INDEX</b>	<b>Data Type &amp; Size</b>	<b>Domains &amp; Constraints</b>	<b>FK Reference</b>	<b>Description</b>
membership_id	PK/FK		INT	NOT NULL	membership.membership_id	
benefit_id	PK.FK		INT	NOT NULL	benefit.benefit_id	

**NOTES:**

- For obvious descriptive attributes, a description is not necessary (e.g. client\_id PK - “a unique identifier for the clients”)
- The FKs reference format is **table\_name.attribute\_name**
- Use ONLY PostgreSQL syntaxes
- The AK are for (Alternate Key) - **candidate keys that are not currently selected as a primary key**