

Elama Automobile Repair
Data Dictionary

CUSTOMER

| Name | Data Type | Constraints | Key | Description | Example Value |
|-----------------------|-----------|-------------|-----|--------------------------------|---------------------|
| Customer ID | bigint | > 0 | PK | Unique identifier for customer | 12345 |
| Customer Name | varchar | | | Name of customer | John Doe |
| Customer Phone Number | bigint | | | Phone number of customer | 0123456789 |
| Customer Address | varchar | | | Address of customer | 123 Alphabet Street |

AUTOMOBILE

| Name | Data Type | Constraints | Key | Description | Example Value |
|------------------|-----------|-------------|-----|-------------------------------------|-------------------|
| Automobile VIN | varchar | NOT NULL | PK | Unique identifier for automobile | 4F2CU08102KM50866 |
| Automobile Year | int | | | Manufacture year of automobile | 2002 |
| Automobile Make | varchar | | | Make of automobile | Mazda |
| Automobile Model | varchar | | | Model of automobile | Tribute |
| Customer ID | bigint | > 0 | FK | Customer associated with automobile | 12345 |

REPAIR

| Name | Data Type | Constraints | Key | Description | Example Value |
|------------------------|-----------|-------------|-----|-------------------------------------|-------------------|
| Repair ID | bigint | > 0 | PK | Unique identifier for repair | 12345 |
| Repair Description | varchar | | | Description of repair | Oil Change |
| Repair Initiation Date | date | | | Date when repair is started | 2000-01-01 |
| Repair Deposit Amount | numeric | | | Financial deposit for repair | 50 |
| Repair Completion Date | date | | | Date when repair is finished | 2000-01-07 |
| Repair Total Amount | numeric | | | Financial total for repair | 100 |
| Customer ID | bigint | > 0 | FK | Customer for whom the repair is for | 12345 |
| Automobile VIN | varchar | NOT NULL | FK | Automobile that is being repaired | 4F2CU08102KM50866 |
| Repair Estimate ID | bigint | > 0 | FK | Estimate of the repair | 12345 |

REPAIR ESTIMATE

| Name | Data Type | Constraints | Key | Description | Example Value |
|---------------------------------|-----------|-------------|-----|--|-------------------|
| Repair Estimate ID | bigint | >0 | PK | Unique identifier for repair estimate | 12345 |
| Repair Estimate Description | varchar | | | Description of repair estimate | Oil Change |
| Repair Estimate Amount | numeric | | | Estimated cost of repair | 100 |
| Repair Estimate Completion Date | date | | | Estimated repair completion date | 2000-01-07 |
| Requesting Customer ID | bigint | > 0 | FK | Customer requesting the repair estimate | 10/18/1933 |
| Automobile VIN | varchar | NOT NULL | FK | Automobile that the repair estimate is for | 4F2CU08102KM50866 |

| | | | | | |
|-----------------------|--------|-----|----|--|-------|
| Memmployee ID | bigint | > 0 | FK | Manager responsible for repair estimate | 12345 |
| Approving Customer ID | bigint | > 0 | FK | Customer that approved the repair estimate | 12345 |

LABOR ESTIMATE

| Name | Data Type | Constraints | Key | Description | Example Value |
|----------------------|-----------|-------------|-----|---|---------------|
| Repair Estimate ID | bigint | > 0 | CPK | Unique identifier for repair estimate that requires labor | 12345 |
| Skill ID | bigint | > 0 | CPK | Unique identifier for skill needed for repair | 12345 |
| Skill Hours Required | int | | | Number of hours needed with skill | 1 |

EQUIPMENT ESTIMATE

| Name | Data Type | Constraints | Key | Description | Example Value |
|--------------------------|-----------|-------------|-----|---|---------------|
| Repair Estimate ID | bigint | > 0 | CPK | Unique identifier for repair estimate that requires equipment | 12345 |
| Equipment ID | bigint | > 0 | CPK | Unique identifier for equipment needed for repair | 12345 |
| Equipment Hours Required | int | | | Number of hours needed with equipment | 1 |

SKILL

| Name | Data Type | Constraints | Key | Description | Example Value |
|-------------------|-----------|-------------|-----|-----------------------------|-----------------------------------|
| Skill ID | bigint | > 0 | PK | Unique identifier for skill | 12345 |
| Skill Name | varchar | | | Name of skill | Welding |
| Skill Description | varchar | | | Description of skill | Certified to do auto body welding |

EQUIPMENT

| Name | Data Type | Constraints | Key | Description | Example Value |
|------------------------|-----------|-------------|-----|---------------------------------|---------------|
| Equipment ID | bigint | > 0 | PK | Unique identifier for equipment | 12345 |
| Equipment Description | varchar | | | Description of equipment | Hammer Drill |
| Equipment Manufacturer | varchar | | | Manufacturer of equipment | DeWalt |
| Equipment Model | varchar | | | Model of equipment | DCD777B |

EQUIPMENT UTILIZED

| Name | Data Type | Constraints | Key | Description | Example Value |
|-----------------------------------|-----------|-------------|-----|---|---------------|
| Equipment ID | bigint | > 0 | CPK | Unique identifier for equipment | 12345 |
| Repair ID | bigint | > 0 | CPK | Unique identifier for repair | 12345 |
| Equipment Check-out Date and Time | date | | | When equipment is taken to be used for repair | 2000-01-01 |
| Equipment Check-in Date and Time | date | | | When equipment is returned from repair | 2000-01-07 |
| TempployeeID | bigint | > 0 | FK | Technician that is using the equipment | 12345 |

EMPLOYEE

| Name | Data Type | Constraints | Key | Description | Example Value |
|------|-----------|-------------|-----|-------------|---------------|
|------|-----------|-------------|-----|-------------|---------------|

| | | | | | |
|-----------------------|---------|----------|----|---|------------|
| Employee ID | bigint | > 0 | PK | Unique identifier for employee | 12345 |
| Employee Name | varchar | | | Name of employee | John Doe |
| Employee Phone Number | bigint | | | Phone number of employee | 0123456789 |
| Employee Date of Hire | date | | | When employee was hired | 2000-01-01 |
| Employee Type | varchar | NOT NULL | FK | Classification of employee (Technician/Manager) | Technician |

TECHNICIAN

| Name | Data Type | Constraints | Key | Description | Example Value |
|-------------|-----------|-------------|-----|---|---------------|
| TEmployeeID | bigint | > 0 | PK | Unique identifier for technician employee | 12345 |

POSSESS

| Name | Data Type | Constraints | Key | Description | Example Value |
|-------------|-----------|-------------|-----|---|---------------|
| Skill ID | bigint | > 0 | CPK | Unique identifier for skill that Technician possesses | 12345 |
| TEmployeeID | bigint | | CPK | Unique identifier for Technician that possesses skill | 12345 |

MANAGER

| Name | Data Type | Constraints | Key | Description | Example Value |
|-------------|-----------|-------------|-----|--|---------------|
| MEmployeeID | bigint | > 0 | PK | Unique identifier for manager employee | 12345 |

SUPERVISE

| Name | Data Type | Constraints | Key | Description | Example Value |
|-------------|-----------|-------------|-----|--|---------------|
| Repair ID | bigint | > 0 | CPK | Unique identifier for repair that manager is supervising | 12345 |
| MEmployeeID | bigint | > 0 | CPK | Unique identifier for manager that is supervising repair | 12345 |

PART QUANTITY REQUIRED

| Name | Data Type | Constraints | Key | Description | Example Value |
|------------------------|-----------|-------------|-----|---|---------------|
| Repair Estimate ID | bigint | > 0 | CPK | Unique identifier for repair estimate that requires parts | 12345 |
| Part ID | bigint | > 0 | CPK | Unique identifier for part required | 12345 |
| Part Quantity Required | int | | | Amount of part required for repair | 10 |

PART

| Name | Data Type | Constraints | Key | Description | Example Value |
|-----------------------|-----------|-------------|-----|--------------------------------------|---------------|
| Part ID | bigint | > 0 | PK | Unique identifier for part | 12345 |
| Part Description | varchar | | | Description of part | Lug Nut |
| Part Unit Cost | numeric | | | Financial cost of a unit of the part | 2.25 |
| Part Quantity on Hand | int | | | Number of parts available | 50 |

PART CONSUMPTION

| Name | Data Type | Constraints | Key | Description | Example Value |
|------------------------|-----------|-------------|-----|---|---------------|
| Part ID | bigint | > 0 | CPK | Unique identifier for part being used | 12345 |
| Repair ID | bigint | > 0 | CPK | Unique identifier for repair that part is for | 12345 |
| Part Consumption Date | date | | | Date that the part is used | 2000-01-01 |
| Part Quantity Consumed | int | | | Number of parts used for repair | 5 |

LABOR UTILIZED

| Name | Data Type | Constraints | Key | Description | Example Value |
|---------------------------|-----------|-------------|-----|--|---------------|
| Repair ID | bigint | > 0 | CPK | Unique identifier for repair that labor is used | 12345 |
| TEmployeeID | bigint | > 0 | CPK | Unique identifier for technician that is working on repair | 12345 |
| Shift Start Date and Time | date | | | Time that technician starts working on repair | 2000-01-01 |
| Shift End Date and Time | date | | | Time that technician finishes working on repair | 2000-01-07 |