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# Metadata Documentation
**Database**: `mcqueen db`
**Last Updated**: 2025-08-23
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## 🗐 Tables Overview
| Table Name | Description |
|-----|
| `Car` | Stores car inventory details |
| `Customer` | Contains customer personal information |
| `Employee` | Contains employee (sales staff) information |
| `Date` | Date dimension used for sale tracking and partitioning |
| `Sales` | Fact table storing car sale transactions (partitioned) |
| `top10_highest_sales` | Materialized view with the top 10 highest-value sales |
## 🔍 Table: `Car`
| Column | Data Type | Description |
|-----|
| `carid` | INT | Primary Key – Unique ID for each car |
| `model` | VARCHAR | Car model name |
| `brand` | VARCHAR | Manufacturer |
| `year` | YEAR | Year of manufacture |
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| `price` | DECIMAL | Price of the car |
## 1 Table: `Customer`
| Column | Data Type | Description |
|-----|
| `customerid` | INT | Primary Key - Unique ID for each customer |
| `first_name ` | VARCHAR | First name |
|`last_name`|VARCHAR|Last name|
| `email` | VARCHAR | Contact email |
| `phone` | VARCHAR | Phone number |
## 🧥 Table: `Employee`
| Column | Data Type | Description |
|-----|
| `employeeid` | INT | Primary Key – Unique ID for each employee |
| `first_name ` | VARCHAR | First name |
| `last_name` | VARCHAR | Last name |
| `position` | VARCHAR | Role in the company |
| `hire_date` | DATE | Date of hire |
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| Column | Data Type | Description |
|-----|
| `dateid` | INT | Primary Key – Surrogate key |
|`full_date`|DATE|Calendar date|
| `month` | INT | Month number |
|`year`|INT|Year|
| `day_of_week` | VARCHAR | Day name (e.g., Monday) |
## 6 Table: `Sales` (Partitioned)
| Column | Data Type | Description |
|-----|
| `saleid` | INT | Primary Key – Unique sale transaction ID |
| `customerid` | INT | FK to `Customer` |
| `employeeid` | INT | FK to `Employee` |
| `carid` | INT | FK to `Car` |
| `dateid` | INT | FK to `Date` (used for partitioning) |
| `sale_amount` | DECIMAL | Total sale value |
| `sale_date` | DATE | Date of sale (used in partitioning logic) |
**Partitioning Details**:
- Type: RANGE partitioning
- Key: `sale_date`
- Partition strategy: Monthly or yearly partitions (e.g., `sales_2025_08`)
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III Table: `Date`

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📌 Notes

- All FK relationships are enforced manually or via application logic.
- All dimension tables (`Car`, `Customer`, `Employee`, `Date`) are assumed to be relatively static.
- Partitioning improves performance for time-based queries on `Sales`.

🔁 Maintenance Tasks