**Asset Management Module:**

Maintenance Table along with other dependent tables.

1. Maintenance Table:

* Maintenance\_ID (Primary Key)
* Asset\_ID (Foreign Key) points to the Asset Table for maintenance
* Maintenance\_Type\_ID (Foreign Key) points to the Maintenance Type Table
* Scheduled\_Date
* Completion\_Date
* Maintenace\_Status [E.g. Pending, In-progress, Completed, Cancelled]
* Maintenace\_Description [Maintenance activity]
* Maintenace\_Cost [Incurred for maintenance]

1. Maintenance Type Table:

* Maintenance\_Type\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Type\_Name [E.g. Preventive maintenance, Corrective maintenance, Predictive maintenance]

1. Maintenance Personnel Table:

* Personnel\_ID (Primary Key) for the Maintenance Personnel/Staff/Worker/Labour
* Personnel\_Name
* Personnel\_Position [E.g. Technician, Supervisor]
* Personnel\_Contact\_Information [Email, Phone number, Address]

1. Maintenance Parts Table:

* Part\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Part\_Name
* Parts\_Quantity
* Unit\_Cost
* Total\_Cost

1. Maintenance Checklist Table:

* Checklist\_ID (Primary Key)
* Maintenance\_Type\_ID (Foreign Key) points to the Maintenance Type Table
* Checklist\_Item [Used for maintenance purpose]
* Checklist\_Description
* Checklist\_Frequency [E.g. Daily, Weekly, Monthly]
* Checklist\_Requirement [Kind if maintenance work usage]

1. Maintenance Vendor Table:

* Vendor\_ID (Primary Key)
* Vendor\_Name
* Vendor\_Contact\_Information [Email, Phone number, Address]
* Vendor\_Contract\_Details [Agreements with the Maintenance Vendor]

1. Maintenance Schedule Table:

* Schedule\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table to associate the schedules with specific maintenance records
* Schedule\_StartDate
* Schedule\_EndDate
* Schedule\_Location [Maintenance activity place]
* Assigned\_Personnel

1. Maintenance Cost Breakdown Table:

* Cost\_Breakdown\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Cost\_Category
* Cost\_Description
* Cost\_Amount

1. Maintenance History Table:

* History\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Asset\_ID (Foreign Key) points to the Asset Table
* Previous\_Status [Before the repair/maintenance]
* New\_Status [After the repair/maintenance]
* History\_Logs/Notes/Description

1. Maintenance Risk Assessment Table:

* Risk\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Risk\_Description
* Mitigation\_Plan [Cushion impact plans]
* Severity [E.g. Low, Medium, High]

1. Maintenance Request Table:

* Request\_ID (Primary Key)
* Asset\_ID (Foreign Key) points to Asset Table
* Requester\_ID (Foreign Key) points to the Consumer Table
* Request\_Date
* Request\_Priority [E.g. Low, Medium, High]
* Request\_Description

1. Maintenance Approval Table:

* Approval\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to Maintenance Table
* Approver\_ID (Foreign Key) points to the Personnel/Department Table
* Approval\_Date
* Approval\_Status

1. Maintenance Tasks Table:

* Task\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Task\_Description
* Estimated\_Duration
* Task\_Status [E.g. Pending, In-progress, Completed, Cancelled]

1. Maintenance Inventory Table:

* Inventory\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to Maintenance Table
* Item\_Name [Inventory item name]
* Quantity\_Used
* Inventory\_Location [Storage area]

1. Maintenance Performance Metrics Table:

* Metric\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Metric\_Type
* Metric\_Value
* Metric\_Date

1. Maintenance Training Records Table:

* Training\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Training\_Type [E.g. Equipment training, Safety training]
* Training\_Provider
* Training\_Date
* Trainer
* Training\_Duration

1. Maintenance Safety Incidents Table:

* Incident\_ID (Primary Key)
* Maintenance\_ID (Foreign Key) points to the Maintenance Table
* Incident\_Date
* Incident\_Type
* Incident\_Description
* Incident\_Severity
* Incident\_Status