

LINK SCHEDULE

Link Schedule Screen is the screen which contains the list of all the machines along with some properties. This screen works on “**parent-child table relationship**” which has the ability to show child rows for each row.

This child rows are attached to each parent row, and can be used, for example, to provide extra information about the parent row. Here, you will do crud operation over the child row.

The term CRUD is short for Create, Read, Update and Delete-

- **Create**
Creates a new row in the machine_schedule_transaction table with data as entered by the user
- **Read**
Returns a Stream over all the rows in the machine_schedule_transaction table
- **Update**
Updates an existing row in machine_schedule_transaction table in the database from the given entity based on primary key- “schedule_id”
- **Delete**
Removes the row from machine_schedule_transaction table in the database

When user clicks on the “Link Schedule” option under the “Operations on Machine Maintenance” Menu option of Maintenance, all the machines along with their attributes will be shown here.

machine List							
SNo	Machine Sr No	Machine Description	Machine Type	Working Shop	AMC Agency		
1	17070001	OP-70 AUTOMATED MEASUREMENT SYSTEM	CNC Machine	Wheel	Select		ADD SCHEDULE
2		HUMAN MACHINE INTERFACE-I	CNC Machine	Wheel	Select		ADD SCHEDULE
3	14700002	Bolster Machining-II	CNC Machine	Bogie	Select		ADD SCHEDULE
4	14600001	Bogie Frame Machine-I	CNC Machine	Bogie	Select		ADD SCHEDULE
5		OP-110 WHEEL HUB GREASING STATION	CNC Machine	Wheel	Select		ADD SCHEDULE
6		HMI-III	CNC Machine	Wheel	Select		ADD SCHEDULE

machine List							
SNo	Machine Sr No	Machine Description	Machine Type	Working Shop	AMC Agency		
1	17070001	OP-70 AUTOMATED MEASUREMENT SYSTEM	CNC Machine	Wheel	Select		ADD SCHEDULE
		<div><div>Schedule Data</div><div><div>+ Add new record</div><div><div>Schedule Type</div><div>Schedule Date</div><div>Schedule Completed</div><div>Schedule Completed Date</div><div>Schedule Sequence</div></div><div><div>Half Yearly</div><div>08-11-2019</div><div>No</div><div>09-11-2019</div><div>1</div><div><div></div><div></div></div></div><div><div>Weekly</div><div>15-11-2019</div><div>No</div><div>01-11-2019</div><div>1</div><div><div></div><div></div></div></div></div></div>					

Here, you can add a new record of child entity by clicking button ‘Add Schedule’, can edit already available child record by clicking edit button, or delete existing machine record by clicking delete button.

Functionalities:

A new child record is created by clicking toolbar icon 'Add New Record' under the button 'Add Schedule'.

✓ **List of Machines:** A Machine List table with the following properties is displayed:

- **S No**
A unique identifier assigned incrementally or sequentially to the machines, to uniquely identify them.
- **Machine Sr No**
A unique identifier assigned by the user to the machines, to uniquely identify them.
- **Machine Description**
Description of machines corresponding to the particular machine ID.
- **Machine Type**
Type of machine is to be selected here. There are some types which are already defined like CNC machine, non-CNC machine, laboratory instruments etc.
- **Working Shop**
Sequence of stages are carried out in different shops such as wheel shop, bogie shop etc.
- **AMC Agency**
ID and description associated with the AMC Agency.

ADD SCHEDULE (CHILD TABLE)


✓ **Add New Record:** There are various fields:

- **Schedule Type**
Schedule types are- weekly, half-yearly, yearly etc
- **Schedule Date**
Date on which activities are scheduled
- **Schedule Completed Flag**
Flag to know whether scheduled activity is completed or not
- **Schedule Completed Date**
Date on which scheduled activity is completed
- **Schedule Sequence**
Sequence number of scheduled activity

Note: Editing and deleting of existing data can be done on the screen.

ADDING NEW RECORD

When you click on Save button, data as entered by the user will be saved on the screen and in the database, one row will be added with the same data.

Add new record 

Schedule Type

Weekly ▾

Schedule Date

Schedule Completed

Yes ▾

Schedule Completed Date

Schedule Sequence


1 ▾

Cancel

Save

EDITING ALREADY EXISTING RECORD

When you want to add some new information to the existing data or want to update already entered data, you click on the edit button on the screen.

Edit record 

Schedule Type

Half Yearly ▾

Schedule Date

08-11-2019

Schedule Completed

No ▾

Schedule Completed Date

09-11-2019

Schedule Sequence


1 ▾


Cancel

Save

DELETE DATA

When you want to delete some data, you click on the delete button on the screen. Data deleted from the Screen will be deleted from database as well.

Are you sure? 

 This record will be deleted. Are you sure?

Cancel

Delete

**LINK
SCHEDULE
ACTIVITY**

Link Schedule With Activity Screen is the screen which contains the list of all the machines along with some properties. This screen works on “**parent-child table relationship**” which has the ability to show child rows for each row.

This child rows are attached to each parent row, and can be used, for example, to provide extra information about the parent row. Here, you will do crud operation over the child row.

The term CRUD is short for Create, Read, Update and Delete-

- **Create**
Creates a new row in the machine_schedule_activity table with data as entered by the user
- **Read**
Returns a Stream over all the rows in the machine_schedule_activity table
- **Update**
Updates an existing row in machine_schedule_activity table in the database from the given entity based on primary key- “activity_no”
- **Delete**
Removes the row from machine_schedule_activity table in the database

When user clicks on the “Link Schedule Activity” option under the “Operations on Machine Maintenance” Menu option of Maintenance, all the machines along with their attributes will be shown here.

machine List										
SNo	Machine Sr No	Machine Description	Machine Type	Working Shop	AMC Agency					
1	17070001	OP-70 AUTOMATED MEASUREMENT SYSTEM	CNC Machine	Wheel	Select	WEEKLY	MONTHLY	QUARTERLY	HALF-YEARLY	YEARLY
2		HUMAN MACHINE INTERFACE-I	CNC Machine	Wheel	Select	WEEKLY	MONTHLY	QUARTERLY	HALF-YEARLY	YEARLY
3	14700002	Bolster Machining-II	CNC Machine	Bogie	Select	WEEKLY	MONTHLY	QUARTERLY	HALF-YEARLY	YEARLY
4	14600001	Bogie Frame Machine-I	CNC Machine	Bogie	Select	WEEKLY	MONTHLY	QUARTERLY	HALF-YEARLY	YEARLY

machine List										
SNo	Machine Sr No	Machine Description	Machine Type	Working Shop	AMC Agency					
1	17070001	OP-70 AUTOMATED MEASUREMENT SYSTEM	CNC Machine	Wheel	Select	WEEKLY	MONTHLY	QUARTERLY	HALF-YEARLY	YEARLY
						<div>Weekly Data + Add new record ✕</div> <div>Activity Description</div> <div>CHECKING THE VENTILATION SYSTEM OPERATION. OVERHEATING IS INDICATED WITH AN ERROR MESSAGE ON THE DISPLAY OF THE MACHINE CONTROL SYSTEM. ✎ 🗑</div>				

Here, you can add a new record of child entity by clicking button “**Weekly, Monthly, Quarterly, Half-Yearly, Yearly**”, can edit already available child record by clicking edit button, or delete existing machine record by clicking delete button.

Functionalities:

A new child record is created by clicking toolbar icon 'Add New Record' under the button 'Add Schedule'.

✓ **List of Machines:** A Machine List table with the following properties is displayed:

- **S No**
A unique identifier assigned incrementally or sequentially to the machines, to uniquely identify them.
- **Machine Sr No**
A unique identifier assigned by the user to the machines, to uniquely identify them.
- **Machine Description**
Description of machines corresponding to the particular machine ID.
- **Machine Type**
Type of machine is to be selected here. There are some types which are already defined like CNC machine, non-CNC machine, laboratory instruments etc.
- **Working Shop**
Sequence of stages are carried out in different shops such as wheel shop, bogie shop etc.
- **AMC Agency**
ID and description associated with the AMC Agency.

Weekly, Monthly, Quarterly, Half-Yearly, Yearly


✓ **Add New Record:** There is one field only:

- **Activity Description**
Description of all the activities associated with unique activity_no

Note: Editing and deleting of existing data can be done on the screen.

ADDING NEW RECORD

When you click on Save button, data as entered by the user will be saved on the screen and in the database, one row will be added with the same data.

Add new record 

Activity Description

Select




Cancel

Save

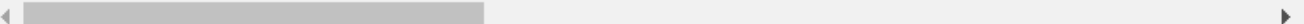
EDITING ALREADY EXISTING RECORD

When you want to add some new information to the existing data or want to update already entered data, you click on the edit button on the screen.

Edit record 

Activity Description

CHECKING THE VENTILATION SYSTEM OPERATION. OVERHEATING IS INDICATED WITH AN ERROR MAS





Cancel

Save

DELETE DATA

When you want to delete some data, you click on the delete button on the screen. Data deleted from the Screen will be deleted from database as well.

Are you sure? 

 This record will be deleted. Are you sure?

Cancel

Delete

REPORT

MACHINE FAILURE

The breakdown maintenance is a type of maintenance that involves using a machine until it completely breaks down and then repairing it to working order. This Report Machine Failure is the major part of this maintenance.

This Report Machine Failure Screen contains all the machines with their attributes. On this screen, one toolbar will be there. On submitting the required details of the toolbar, the selected machine will be reported as failed with the details entered by the user.

When user clicks on the “Report Machine Failure” option under the “Operations On Machine Maintenance” Menu option of Maintenance, all the machines and their some attributes will be shown here.

Machine List							Machine Report Failure
Sr No	Machine Sr No	Machine Description	Machine Type	Working Shop	Maintenance Shop Id	AMC Agency	
1	17070001	OP-70 AUTOMATED MEASUREMENT SYSTEM	CNC Machine	Wheel Shop	Select	Select	
2		HUMAN MACHINE INTERFACE-I	CNC Machine	Wheel Shop	Select	Select	
3	14700002	Bolster Machining-II	CNC Machine	Bogie Shop	Select	Select	
4	14600001	Bogie Frame Machine-I	CNC Machine	Bogie Shop	Select	Select	
5		OP-110 WHEEL HUB GREASING STATION	CNC Machine	Wheel Shop	Select	Select	
6		HMI-III	CNC Machine	Wheel Shop	Select	Select	
7	17020001	OP-20 CNC AXLE TURNING M/C	CNC Machine	Wheel Shop	Select	Select	

Here, you can report the failure of any machine using toolbar option ‘Machine Report Failure’. The failed machines will be displayed in red colour.

Functionalities:

A machine is reported failed by clicking toolbar icon ‘Machine Report Failure’.

✓ **List of Machines:** Machine List table with the following properties is displayed:

- **Sr No**
A unique identifier assigned incrementally or sequentially to the machines, to uniquely identify them.
- **Machine Sr No**
A unique identifier assigned by the user to the machines, to uniquely identify them.
- **Machine Description**
Description of machines corresponding to the particular machine ID.
- **Machine Type**
Type of machine is to be selected here. There are some types which are already defined like CNC machine, non-CNC machine, laboratory instruments etc.
- **Working Shop**
Sequence of stages are carried out in different shops such as wheel shop, bogie shop etc.

- **Maintenance Shop ID**
IDs associated with the maintenance shop of machines.
- **AMC Agency**
IDs and descriptions associated with the AMC Agency.
- ✓ **Machine Report Failure:** There are some fields which will update the details of breakdown of machine:
 - **Enter Breakdown Date**
Date on which machine was failed. This date can be of today as well as past but can't be of future.
 - **Failure Code**
Dropdown of all the failure descriptions to be selected by the user.
 - **Failure Description**
Descriptions of failed properties of the machines as entered by the user.
 - **Remarks**
Remarks entered as by the user.

When you click on Submit button, data as entered by the user will be saved in the database under the table “machine_breakdown”.

Exit

Enter Breakdown Date:

Failure Code :

Select

Failure Description:

Enter Description

Remarks:

Enter Remark

Submit

Close

**PERFORM ACTION
ON
FAILED MACHINE**

The breakdown maintenance is a type of maintenance that involves using a machine until it completely breaks down and then repairing it to working order. This Action on Failed Machine is the major part of this maintenance.

This Perform Action on Failed Machine Screen contains only the failed machines with their attributes. On this screen, one toolbar “Perform Action” will be there. On submitting the required details of the toolbar, the selected machine status will be reported either as under progress or resolved as entered by the user.

When user clicks on the “Perform Action on Failed Machine” option under the “Operations On Machine Maintenance” Menu option of Maintenance, all the failed machines and their some attributes will be shown here.

Failed Machine							Perform Action
SNo	Machine Sr No.	Machine Description	Breakdown Date	Breakdown Details	Breakdown Remarks	Comissioning Date	
1	17020001	QP-20 CNC AXLE TURNING MIC	01-11-2019	AEH	LJGZDUV	17-10-2015	
2	17060001	QP-40 ULTRASONIC TESTING	26-11-2019			17-10-2015	
3	17090001	QP-210 CNC SURFACE PORTAL LATHE MIC	26-11-2019	mhbvbg	poul8lyxs	17-10-2015	
4	13000001	CNC BED MILLING MACHINE RUQ150 VR/AS (TOS KURIMI)	11-11-2019			19-12-2014	

Here, you can report that the machine is either failed or failure resolved of any machine using toolbar option ‘Perform Action’. The failed machines will be displayed in red colour.

Functionalities:

Actions on the failed machines is reported by clicking toolbar icon ‘Perform Action’.

✓ **List of Machines:** Machine List table with the following properties is displayed:

- **S No**
A unique identifier assigned incrementally or sequentially to the machines, to uniquely identify them.
- **Machine Sr No**
A unique identifier assigned by the user to the machines, to uniquely identify them.
- **Machine Description**
Description of machines corresponding to the particular machine ID.
- **Breakdown Date**
Date on which machine was failed.
- **Breakdown Details**
Details of breakdown condition.
- **Breakdown Remarks**
Remarks as entered by user in the report machine failure task.

- Commissioning Date

Date on which machine is commissioned.

✓ **Perform Action:** There are some fields which will update the action performed on failed machines:

- Enter Action to be Performed

Action which will be performed on the failed machines.

- Remarks

Remarks as entered by the user.


- Status

Two kinds of status can be updated like- Under Progress and Resolved. Under Progress is for those machines which are still failed and Resolved is for those machines which are repaired.

- Enter completion date

Date on which the failed machine is repaired. This date picker will be disabled till the status is under progress, further when the status is resolved, then the date picker will be enabled.

When you click on Submit button, data as entered by the user will be saved in the database under the table “machine_failed_action”.

Action taken for CNC BED MILL... 

Enter Action To be Performed:

Remarks:

Status:

Select ▼

Enter Completion Date:

26-11-2019

Submit

Close

OVERDUE SCHEDULE

Scheduled maintenance is any maintenance that is arranged to be done ahead of time and within a predetermined period. It can either be a recurring task done at regular time intervals or a one-time task. Scheduled maintenance includes inspections, adjustments, regular service, and planned shutdowns.

This Overdue Schedule Screen contains only those machines whose scheduled activity is due. On this screen, one toolbar “Release For Schedule” will be there. On submitting the required details of the toolbar, the selected machine will be released for the scheduled activity.

When user clicks on the “Overdue Schedule” option under the “Operations On Machine Maintenance” Menu option of Maintenance, all the machines and their some attributes whose scheduled activity is due will be shown here.

Schedule Due Machine					↑ Release for Schedule
SNo	Machine Sr No.	Machine Description	Schedule Type	Schedule Date	
	4000001	Under Water Plasma (22191)	Undefined	36-11-2019	

Functionalities:

Machine is released for schedule activity by clicking toolbar icon ‘Release for Schedule’.


✓ **List of Machines:** Machine List table with the following properties is displayed:

- S No
A unique identifier assigned incrementally or sequentially to the machines, to uniquely identify them.
- Machine Sr No
A unique identifier assigned by the user to the machines, to uniquely identify them.
- Machine Description
Description of machines corresponding to the particular machine ID.
- Schedule Type
Schedule types are- weekly, half-yearly, yearly etc.
- Schedule Date
Date on which activity is scheduled for machine.

✓ **Release for Schedule:** There is only one field which will be updated:

- Enter Release Date
Date as entered by the user for the schedule of machine.

When you click on Submit button, data as entered by the user will be saved in the database.

Release Machine Under Water ... 

Enter Release Date:

OVERDUE ACTION SCHEDULE

Scheduled maintenance is any maintenance that is arranged to be done ahead of time and within a predetermined period. It can either be a recurring task done at regular time intervals or a one-time task. Scheduled maintenance includes inspections, adjustments, regular service, and planned shutdowns.

This Overdue Action Schedule Screen contains only those machines who are dispatched for the scheduled activity to be done. On submitting the required details of the toolbar, the selected machine will have some information to be submitted by the user for the scheduled activity.

When user clicks on the “Overdue Action Schedule” option under the “Operations On Machine Maintenance” Menu option of Maintenance, all the machines and their some attributes whose scheduled activity is due will be shown here.

Schedule Due Machine					Perform Action
SNo	Machine Sr No.	Machine Description	Schedule Type	Schedule Date	
1	14000001	Under Water Plasma-I (Z2191)	Wundefined	26-11-2019	

Functionalities:

Machine record is submitted with some information by clicking toolbar icon ‘Perform Action’.

✓ **List of Machines:** Machine List table with the following properties is displayed:

- S No
A unique identifier assigned incrementally or sequentially to the machines, to uniquely identify them.
- Machine Sr No
A unique identifier assigned by the user to the machines, to uniquely identify them.
- Machine Description
Description of machines corresponding to the particular machine ID.
- Schedule Type
Schedule types are- weekly, half-yearly, yearly etc.
- Schedule Date
Date on which activity is scheduled for machine.

✓ **Perform Action:** There are some fields which will be updated:

- Enter Action to be Taken
Action to be taken will be entered by the user
- Remarks
Remarks as entered by the user
- Enter Schedule Completed Date
Final completion date of the scheduled activity

- Is Spare Replace

It has two options: Yes and No, when any spare changes are there, then we have to select “YES” and add information like spare description and serial number, otherwise left it at “NO”.

When you click on Submit button, data as entered by the user will be saved in the database.

Action taken for Under Water ...

Enter Action To be Taken:

Remarks:

Enter Schedule Completed Date:

Is Spare replace? Select ▼

Submit

Close

Action taken for Under Water Plasma-I (Z2...

Enter Action To be Taken:

Remarks:

Enter Schedule Completed Date:

Is Spare replace? Yes ▼

Add Spare
Delete Spare

No	Spare Description	Sr No.
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>

Submit

Close