

PROJECT DETAILS

TITLE OF THE PROJECT: A Production-Unit management system.

CLIENT: Wax models supplier Ltd.

INTRODUCTION: The unit deals with the production of wax models with ceramic coating.

The aims of the management system are to:

1. Store and manage the details of the employees, suppliers and customers.
2. Store and manage the raw material procuring, model production and model supply operations
3. Store the monthly money expenditure of the production unit.

MODULES OF THE SYSTEM:

1. Storing the employee details of the production unit. The designation of the employee can be an officer, supervisor or worker.

a)Details of the employees are stored. Status of an employee can be in service, resigned, retired.

Attributes: employee_id, employee name, designation, salary per month, status.

2. Procuring the raw materials from the suppliers:

a) Details of the raw materials are stored.

Attributes: raw_material_id, name, quantity in kgs, density, melting point, hardness, ash content, % of polymer fillers.

b) Details of the suppliers are stored.

Attributes: supplier_id, firm name, contact number, firm registration number, firm registration date, firm address.

c) Details of the orders placed by the production unit to the suppliers. The responsibility of each transaction is given to an officer.

Attributes: Order Id, supplier_id, raw material id, employee_id, quantity of raw material in kgs, supervisor id, money per unit.

d) Log of the purchase orders and their stages is maintained in the database. A track is maintained on the different stages of the purchase orders like: a. Tender under float, Tenders under scrutiny, Order placed, raw materials received.

Attributes: Serial Number, Order_Id, stage of the order, start date, end date.

3. Receiving orders from the customers:

a) Details of the customers are stored.

Attributes: Customer_id, firm number, contact number, firm address, GST number.

b) Details of the orders received by the production unit from the customers. The responsibility of each transaction is given to an officer.

Attributes: project_id, customer_id, employee_id, order received date, deadline date for supply.

c) Details of the models to be supplied for a specific project id are stored.

Attributes: serial_number, project_id, model_id, money per unit in Rupees, quantity in numbers.

4. Production of the models:

a) Details of the model and the number of inventory is stored.

Attributes: Model_id, model name, quantity in number.

b) Details of the raw materials required for the models are stored.

Attributes: serial_number, model id, raw_material_id.

c) Details of the specific piece of a model are stored. The responsibility of each piece is given to a specific worker. The status of a piece can be success or failure.

Attributes: piece_id, model_id, employee_id, start date, end date, status.

5. Maintaining monthly money expenditure log:

a) Details of the expenditures. Cause of expenditure can be salaries, raw materials and new machinery.

Attributes: transaction_id, cause of expenditure, cost, open balance, balance amount, month, year.

b) Details about the different daily money expenditures for the maintenance are stored.

Attributes: transaction_id, description of the maintenance expenditure, cost, date, month, year.