**DBMS PROJECT**

**TRACK MANAGEMENT SYSTEM**

PREPARED BY

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**Track Machine Management for Railways**

Railways is a big organisation which need to maintain the details of different things like tracks and their material so it is tedious job to maintain all these details manually , in order to overcome track procurement management system is providing the successful tools and techniques to a broad range of activities like maintaining inventory of the material needed for tracks like bolts, nuts, joints etc…,the project mainly contains the modules like material purchasing , materials issuing , stock maintenance ,zonal issuing , monitoring of track machines

SHAS

REQUESTS

STATION

SUPPLIED TO

MANAGES

INDIAN RAILWAYS

ADMINISTERS

PRODUCERS

PURCHASES

SUPPLIERS

INVENTORY

MANAGER

EMPLOYEES

MONITOR

TRACK

SCHEMA:

1. STATION(station name , area name, division , zone)
2. TRACK (track number, station name, area name)
3. EMPLOYEES (employee id, employee name, designation (Employee or ), station name, phone)
4. MANAGERS (manager id, manager name, station name)
5. SUPPLIERS (suppliers name, suppliers phone, supplier email, supplier address)
6. INVENTORY (manager id, item name, units, price, inventory area)

SQL COMMANDS:

CREATE TABLE Station

(stat\_name char(25),

area\_name char(25),

division char(15),

zone\_name char(40),

CONSTRAINT Station PRIMARY KEY (stat\_name));

select \* from Station;

CREATE TABLE Track

(track\_id integer,

stat\_name char(25),

area\_name char(25),

CONSTRAINT Track PRIMARY KEY (track\_id),

FOREIGN KEY (stat\_name) REFERENCES Station(stat\_name));

select \* from track;

CREATE TABLE Employees

(employee\_id integer,

employee\_name char(30),

designation char(15),

stat\_name char(25),

phone\_no integer,

CONSTRAINT Employees PRIMARY KEY (employee\_id),

CONSTRAINT phon\_unique UNIQUE (phone\_no),

FOREIGN KEY (stat\_name) REFERENCES Station(stat\_name));

select \* from employees;

CREATE TABLE Managers

(manager\_id integer,

manager\_name char(20),

stat\_name char(25),

CONSTRAINT Managers PRIMARY KEY (manager\_id),

FOREIGN KEY (manager\_id) REFERENCES Employees(employee\_id),

FOREIGN KEY (stat\_name) REFERENCES Station(stat\_name));

select \* from managers;

CREATE TABLE Inventory

(manager\_id integer,

item\_name char(30),

units integer,

price integer,

inv\_area char(15),

CONSTRAINT Inventory PRIMARY KEY (item\_name),

FOREIGN KEY (manager\_id) REFERENCES Managers(manager\_id));

select \* from Inventory;

CREATE TABLE Suppliers

(supplier\_name char(25),

supplier\_phone integer,

supplier\_email char(25),

supplier\_address char(25),

CONSTRAINT Suppliers PRIMARY KEY (supplier\_name));

select \* from suppliers;

insert into Station values('Anakapalle','Visakhapatnam','Vijayawada','South Central Railway');

insert into Station values('Annavaram','West Godavari','Vijayawada','South Central Railway');

insert into Station values('Bapatla','Guntur','Vijayawada','South Central Railway');

insert into Station values('Bhimavaram','Guntur','West Godavari','South Central Railway');

insert into Station values('Vijayawada','Vijayawada','Vijayawada','South Central Railway');

insert into Station values('Bapatla','Guntur','Vijayawada','South Central Railway');

insert into Station values('Kacheguda','Hyderabad','Hyderabad','South Central Railway');

insert into Station values('Kamareddi','Nizamabad','Hyderabad','South Central Railway');

insert into Station values('Kurnool City','Kurnool','Hyderabad','South Central Railway');

insert into Station values('Malakpet','Hyderabad','Hyderabad','South Central Railway');

insert into Station values('Shadnagar','Mahabubnagar','Hyderabad','South Central Railway');

insert into Station values('Bhadrachalam','Khammam','Secunderabad','South Central Railway');

insert into Track values(210856,'Anakapalle','Visakhapatnam');

insert into Track values(210832,'Annavaram','West Godavari');

insert into Track values(210808,'Bapatla','Guntur');

insert into Track values(210804,'Vijayawada','Vijayawada');

insert into Track values(210836,'Kurnool City','Kurnool');

insert into Track values(210812,'Bhadrachalam','Khammam');

insert into Track values(210842,'Malakpet','Hyderabad');

insert into Employees values(2010531231,'Rajesh','employee','Anakapalle',9848291474);

insert into Employees values(2010531321,'Rohith','employee','Anakapalle',9847543474);

insert into Employees values(2010531721,'Krishna','employee','Shadnagar',9848973474);

insert into Employees values(2010031721,'Kumar','manager','Shadnagar',9848567474);

insert into Employees values(2010533221,'Raghu','manager','Malakpet',9844563474);

insert into Employees values(2010631721,'prasad','manager','Vijayawada',9348973474);

insert into Managers values(2010031721,'Kumar','Shadnagar');

insert into Managers values(2010533221,'Raghu','Malakpet');

insert into Managers values(2010631721,'prasad','Vijayawada');

insert into Inventory values(2010031721,'Track Spikes',30,10,'Shadnagar');

insert into Inventory values(2010533221,'Track Bolts',20,5,'Malakpet');

insert into Inventory values(2010533221,'CMS Blocks',20,56,'Malakpet');

insert into Inventory values(2010031721,'Ground Pole',20,220,'Shadnagar');

insert into Inventory values(2010631721,'Wagon Springs',100,10000,'Vijayawada');

insert into Inventory values(2010631721,'Stud FIttings',50,10000,'Vijayawada');

insert into Suppliers values('Rail Udyog',9945772013,'railudyog@gmail.com','Kolkata');

insert into Suppliers values('Vulcan Works',9945756323,'vulcanworks34@gmail.com','Kolkata');

insert into Suppliers values('Goodworks',9543472013,'goodworks@gmail.com','Punjab');

insert into Suppliers values('Involute Works',9357720132,'involute@gmail.com','Kolkata');