DATABASE MANAGEMENT SYSTEMS FOR ABC TYRE COMPANY

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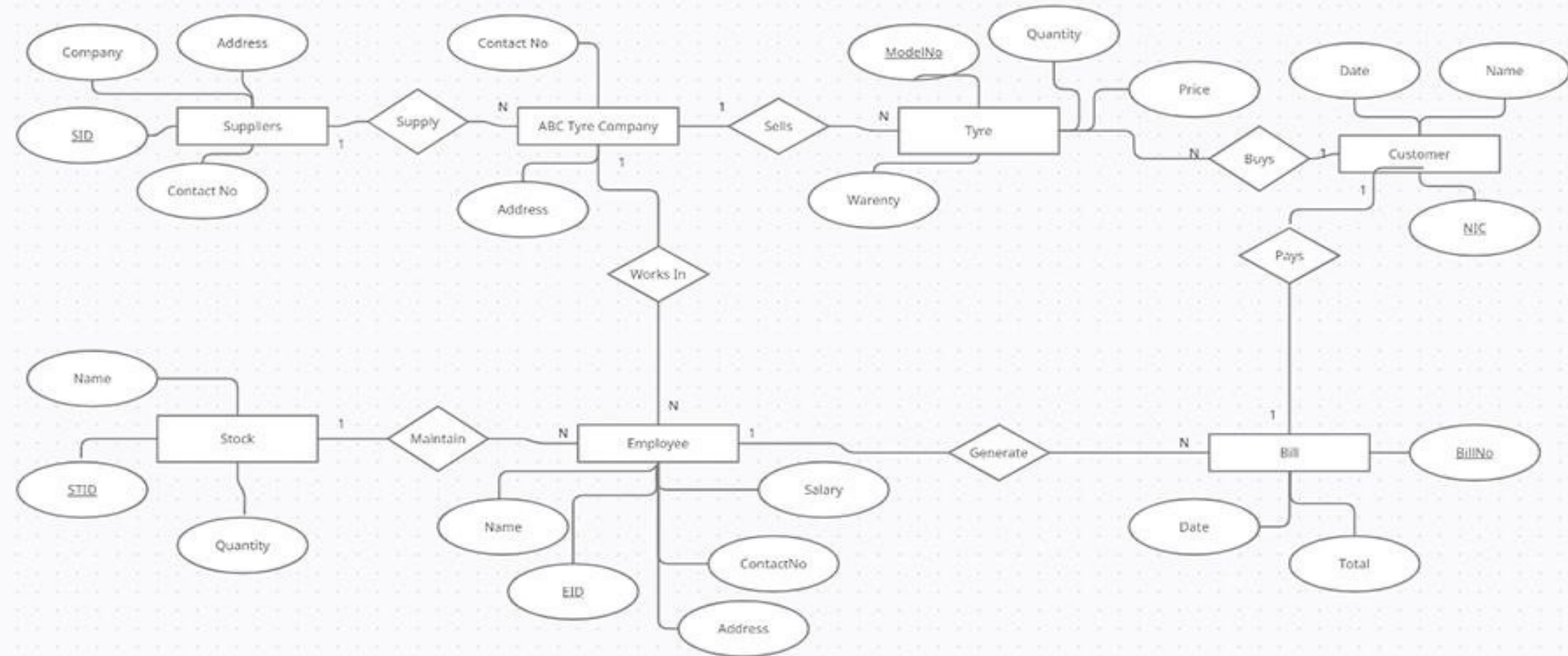- Reg No   : ASP/17/18/059
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Introduction

This Database is for ABC tyre company store room which used to easily calculate the quantity which is stored, to manage customer stores data, and for fast delivering island wide when an order is placed and so on.

ER Diagram

Relational Schema

ABC tyre company

BRN	Address	Contact No

Suppliers

SID	Company	Address	Contact No

Tyre

M.No	Quantity	Warrenty	Price	NIC

Customer

NIC	Name	Date	EID

Bill

BillNo	Date	Total	EID

Employee

EID	Name	Address	Salary	ContactNo	STID

Stock

STID	Name	Quantity

6
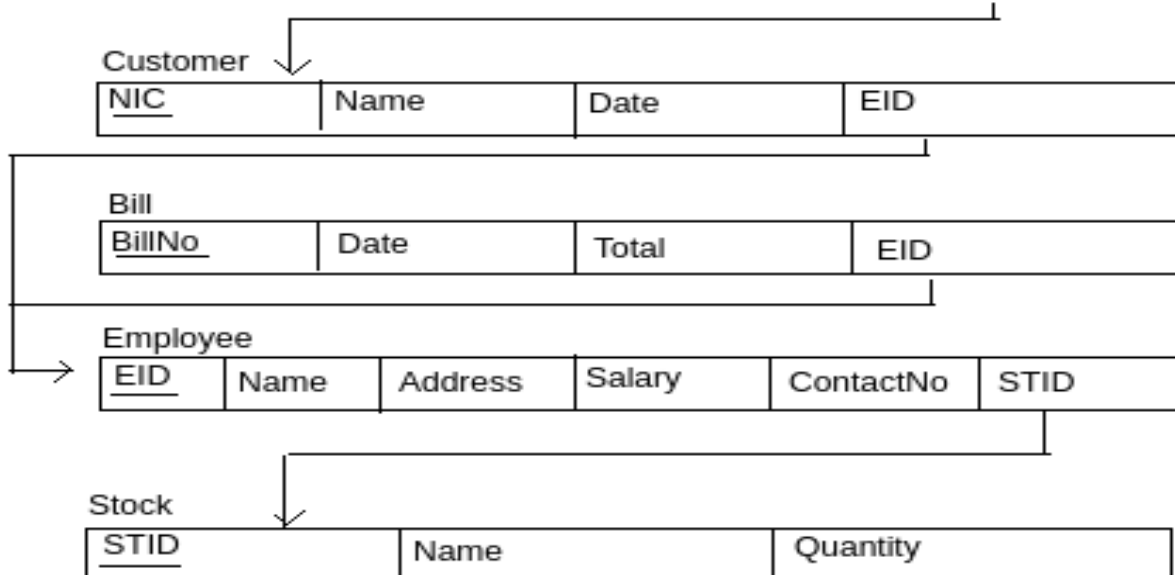
MYSQL Code

```
mysql> create database ABC_Tyre_Company;
Query OK, 1 row affected (0.88 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| ABC_Tyre_Company   |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

mysql> use ABC_Tyre_Company;
Database changed
mysql> create table ABC_Tyre_Company(BRN varchar(10) primary key, Address varchar(50), Contact_No varchar(10));
Query OK, 0 rows affected (2.27 sec)

mysql> create table Supplier(SID varchar(10) primary key, Company varchar(50) , Address varchar(50), Contact_No varchar(10));
Query OK, 0 rows affected (1.66 sec)

mysql> create table Stock(STID varchar(10) primary key, Name varchar(50), Quantity int);
Query OK, 0 rows affected (0.74 sec)

mysql> create table Employee(EID varchar(20) primary key, Name varchar(20) , Address varchar(50),Salary float, Contact_No varchar(10), STID varchar(10
), foreign key(STID) references Stock(STID));
Query OK, 0 rows affected (1.19 sec)

mysql> create table Bill(BillNo int primary key, Date varchar(20), Total float, EID varchar(20), foreign key(EID) references Employee(EID));
Query OK, 0 rows affected (0.86 sec)

mysql> create table Customer(NIC varchar(20) primary key,Name varchar(20), Date varchar(20), EID varchar(20), foreign key(EID) references Employee(EID
));
Query OK, 0 rows affected (0.84 sec)

mysql> create table Tyre(ModelNo varchar(20) primary key,Quantity varchar(5), Warrenty varchar(5),Price float, NIC varchar(20), foreign key(NIC) refer
ences Customer(NIC));
Query OK, 0 rows affected (1.42 sec)

mysql> 
```

```
Query OK, 0 rows affected (1.42 sec)

mysql> insert into ABC_Tyre_Company values('B158762','No40, Fort Lane, Galle','0770079781');
Query OK, 1 row affected (0.45 sec)

mysql> insert into Supplier values('t220','DSI Tyre','No48, Steel Road, Colombo','0118279781'),('t240','Seat Tyre','No50, Main Road, Colombo','0116275
780'),('t250','KSI Tyre','No40, Wlaen Road, Colombo','0118259721');
Query OK, 3 rows affected (0.11 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> insert into Stock values('ST501','DSI Rb500','50'),('ST502','Seat Kv100','100'),('ST503','KSI Ls500','50');
Query OK, 3 rows affected (0.16 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> insert into Employee values('E01','Mr.Amal','No30, First Lane, Galle','52000','0760479781','ST502'),('E02','Mr.Sunil','No55, Madapatha, Galle',
'50000','0780448281','ST503'),('E03','Mr.Ranil','No85, Bridge Lane, Galle','55000','0710475371','ST501');
Query OK, 3 rows affected (0.17 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> insert into Bill values('5000','24/05/2020','600000','E02'),('5001','27/05/2020','100000','E01'),('5003','29/05/2020','55000','E03');
Query OK, 3 rows affected (0.19 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> insert into Customer values('930814040v','Mr.Upeka', '24/05/2020','E02'),('908147060v','Mr.Kalana', '27/05/2020','E01'),('960857040v','Mr.Hasit
h', '29/05/2020','E03');
Query OK, 3 rows affected (0.11 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> insert into Tyre values('M100','2','2Yrs','12000','930814040v'),('M200','3','1Yrs','15000','908147060v'),('M300','3','3Yrs','20000','960857040v
');
Query OK, 3 rows affected (0.16 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from ABC_Tyre_Company;
+---------+------------------------+------------+
| BRN     | Address                | Contact_No |
+---------+------------------------+------------+
| B158762 | No40, Fort Lane, Galle | 0770079781 |
+---------+------------------------+------------+
1 row in set (0.00 sec)

mysql> select * from Supplier;
```

```
mysql> select * from Supplier;
+------+-----------+---------------------------+------------+
| SID  | Company   | Address                   | Contact_No |
+------+-----------+---------------------------+------------+
| t220 | DSI Tyre  | No48, Steel Road, Colombo | 0118279781 |
| t240 | Seat Tyre | No50, Main Road, Colombo  | 0116275780 |
| t250 | KSI Tyre  | No40, Wlaen Road, Colombo | 0118259721 |
+------+-----------+---------------------------+------------+
3 rows in set (0.00 sec)

mysql> select * from Tyre;
+---------+----------+----------+-------+-----------+
| ModelNo | Quantity | Warrenty | Price | NIC       |
+---------+----------+----------+-------+-----------+
| M100    | 2        | 2Yrs     | 12000 | 930814040v |
| M200    | 3        | 1Yrs     | 15000 | 908147060v |
| M300    | 3        | 3Yrs     | 20000 | 960857040v |
+---------+----------+----------+-------+-----------+
3 rows in set (0.00 sec)

mysql> select * from Customer;
+-----------+-----------+------------+------+
| NIC       | Name      | Date       | EID  |
+-----------+-----------+------------+------+
| 908147060v | Mr.Kalana | 27/05/2020 | E01  |
| 930814040v | Mr.Upeka  | 24/05/2020 | E02  |
| 960857040v | Mr.Hasith | 29/05/2020 | E03  |
+-----------+-----------+------------+------+
3 rows in set (0.00 sec)

mysql> select * from Bill;
+--------+------------+--------+------+
| BillNo | Date       | Total  | EID  |
+--------+------------+--------+------+
|   5000 | 24/05/2020 | 600000 | E02  |
|   5001 | 27/05/2020 | 100000 | E01  |
|   5003 | 29/05/2020 |  55000 | E03  |
+--------+------------+--------+------+
3 rows in set (0.00 sec)

mysql> select * from Employee;
```

```
mysql> select * from Customer;
+-----------+-----------+------------+------+
| NIC       | Name      | Date       | EID  |
+-----------+-----------+------------+------+
| 908147060v | Mr.Kalana | 27/05/2020 | E01  |
| 930814040v | Mr.Upeka  | 24/05/2020 | E02  |
| 960857040v | Mr.Hasith | 29/05/2020 | E03  |
+-----------+-----------+------------+------+
3 rows in set (0.00 sec)

mysql> select * from Bill;
+--------+------------+--------+------+
| BillNo | Date       | Total  | EID  |
+--------+------------+--------+------+
|   5000 | 24/05/2020 | 600000 | E02  |
|   5001 | 27/05/2020 | 100000 | E01  |
|   5003 | 29/05/2020 |  55000 | E03  |
+--------+------------+--------+------+
3 rows in set (0.00 sec)

mysql> select * from Employee;
+-----+----------+-------------------------+--------+------------+-------+
| EID | Name     | Address                 | Salary | Contact_No | STID  |
+-----+----------+-------------------------+--------+------------+-------+
| E01 | Mr.Amal  | No30, First Lane, Galle  |  52000 | 0760479781 | ST502 |
| E02 | Mr.Sunil | No55, Madapatha, Galle   |  50000 | 0780448281 | ST503 |
| E03 | Mr.Ranil | No85, Bridge Lane, Galle |  55000 | 0710475371 | ST501 |
+-----+----------+-------------------------+--------+------------+-------+
3 rows in set (0.00 sec)

mysql> select * from Stock;
+-------+-----------+----------+
| STID  | Name      | Quantity |
+-------+-----------+----------+
| ST501 | DSI Rb500 |       50 |
| ST502 | Seat Kv100 |      100 |
| ST503 | KSI Ls500 |       50 |
+-------+-----------+----------+
3 rows in set (0.00 sec)

mysql> 
```