

## **Turmeric Industry:**

-Aman jain (201101132)

Tanuj Sharma (201101138)

Application Documentation:

FIRST TIER:

The database application of Turmeric\_Industry has a login page, in which a user can login as a database administrator (or manager) or an employee or as a worker and the database privileges are given accordingly .

Administrator privileges: The database administrator has complete access to all the records of all the tables in the database

and complete permissions to insert or modify/delete the data records apart from viewing the data. Also the administrator can

upgrade the privileges of any any normal user to administrator privileges.

The employee users on the other hand, can view data of other employees but cant modify other employee's data, but he can modify all workers data. An

employee user can log in with his distinct user name and password and ,can modify his own data.

Similarly, a worker can update his data but cant update others data.

Administrator interface :

Once the administrator logs in, he has access to four functionalities:

- Insert
- Delete
- Update
- View

which are common to all the tables of database except other manager's data.

Similarly as admin employee have access to all workers database.

INSERT FORM:

For each table in the database the form will ask the user for values to those fields corresponding to the columns in that

database table. The administrator will enter the required records through text boxes and hit submit to insert the values. After an insert is made, an appropriate message is displayed.

UPDATE FORM:

As time passes the attributes of the tuple might need a change and to reflect the reality we need to update the data which in

this case can be done via an update form. For updating any tuple in a table we identify it by its corresponding primary key

and hence it is highly necessary to input the primary key. The rest of the form will be similar to insert form and the

specific member(only) of organization can enter the updated values into the fields. After an update, an appropriate message is displayed with the modified table.

DELETE FORM:

All those who have permissions to update database can just click delete button from respective field and that field got deleted.

VIEW FORM:

Users will search according to parameters known and list of database(that can be viewed by the user) corresponds to search will appear.

INTERFACE:

After an employee logs in, his personal data is displayed, we provide him with update and search button to do other stuffs.

#### MIDDLE TIER:

The links to some of the forms are :

localhost/industry/employee.php

localhost/industry/manager.php

localhost/industry/workers.php

localhost/industry/dependent.php

#### THIRD TIER:

```
DROP TABLE IF EXISTS `bill`;
```

```
/*!40101 SET @saved_cs_client = @@character_set_client */;
```

```
/*!40101 SET character_set_client = utf8 */;
```

```
CREATE TABLE `bill` (
```

```
  `bill_no` int(11) NOT NULL,
```

```
  `cost` decimal(10,2) NOT NULL DEFAULT '0.00',
```

```
  `due_date` date NOT NULL,
```

```
  `penalty` int(11) DEFAULT NULL,
```

```
  `date_of_payment` date DEFAULT NULL,
```

```
  `wssn` char(9) NOT NULL,
```

```
  PRIMARY KEY (`bill_no`, `wssn`),
```

```
  KEY `wssn` (`wssn`),
```

```
  CONSTRAINT `bill_ibfk_1` FOREIGN KEY (`wssn`) REFERENCES `workers` (`ssn`) ON  
DELETE CASCADE ON UPDATE CASCADE
```

```
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
```

```
-- Table structure for table `customers`
```

```
--
```

```
DROP TABLE IF EXISTS `customers`;
```

```
/*!40101 SET @saved_cs_client = @@character_set_client */;
```

```
/*!40101 SET character_set_client = utf8 */;
```

```
CREATE TABLE `customers` (
```

```
  `fname` varchar(15) NOT NULL,
```

```
  `lname` varchar(15) NOT NULL,
```

```
  `sex` enum('M','F','G') NOT NULL,
```

```
  `address` varchar(50) DEFAULT NULL,
```

```
  `id` int(11) NOT NULL AUTO_INCREMENT,
```

```
  `phone_no` char(11) NOT NULL,
```

```
  `payment_pending` decimal(10,2) DEFAULT '0.00',
```

```
  `profitable` enum('0','1') NOT NULL,
```

```
  `essn` char(9) NOT NULL,
```

```
  PRIMARY KEY (`id`, `essn`),
```

```
  KEY `essn` (`essn`),
```

```
  CONSTRAINT `customers_ibfk_1` FOREIGN KEY (`essn`) REFERENCES `employee` (`ssn`) ON  
DELETE CASCADE ON UPDATE CASCADE
```

```
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=latin1;  
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--  
-- Table structure for table `dealer`  
--
```

```
DROP TABLE IF EXISTS `dealer`;  
/*!40101 SET @saved_cs_client = @@character_set_client */;  
/*!40101 SET character_set_client = utf8 */;  
CREATE TABLE `dealer` (  
  `id` int(11) NOT NULL,  
  `type` char(30) NOT NULL,  
  `name` varchar(30) NOT NULL,  
  `sex` enum('M','F','G') NOT NULL,  
  `address` varchar(50) NOT NULL,  
  `phone_no` char(11) NOT NULL,  
  `payment_to_give` decimal(10,2) DEFAULT '0.00',  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
DROP TABLE IF EXISTS `department`;  
/*!40101 SET @saved_cs_client = @@character_set_client */;  
/*!40101 SET character_set_client = utf8 */;  
CREATE TABLE `department` (  
  `dnumber` int(11) NOT NULL,  
  `dlocation` varchar(30) NOT NULL,  
  `purpose` varchar(30) DEFAULT NULL,  
  `open_time` time NOT NULL,  
  `close_time` time NOT NULL,  
  `profit_earned` int(11) NOT NULL DEFAULT '0',  
  `maintain_cost` int(11) NOT NULL DEFAULT '0',  
  `dname` varchar(15) NOT NULL,  
  PRIMARY KEY (`dnumber`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--  
-- Table structure for table `dependent`  
--
```

```
DROP TABLE IF EXISTS `dependent`;  
/*!40101 SET @saved_cs_client = @@character_set_client */;  
/*!40101 SET character_set_client = utf8 */;  
CREATE TABLE `dependent` (  
  `essn` char(9) NOT NULL,  
  `name` char(15) NOT NULL,
```

```

`sex` enum('M','F','G') NOT NULL,
`bdate` date DEFAULT NULL,
`relationship` char(9) DEFAULT NULL,
PRIMARY KEY (`essn`,`name`),
CONSTRAINT `dependent_ibfk_1` FOREIGN KEY (`essn`) REFERENCES `employee` (`ssn`) ON
DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Table structure for table `employee`
--

```

```

DROP TABLE IF EXISTS `employee`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `employee` (
  `fname` varchar(15) NOT NULL,
  `lname` varchar(15) NOT NULL,
  `sex` enum('M','F','G') NOT NULL,
  `contact_no` char(11) DEFAULT NULL,
  `bdate` date DEFAULT NULL,
  `ssn` char(9) NOT NULL,
  `salary` decimal(10,2) NOT NULL DEFAULT '0.00',
  `address` varchar(50) NOT NULL,
  `join_date` date NOT NULL,
  `dno` int(11) NOT NULL,
  `leave_date` date DEFAULT NULL,
  PRIMARY KEY (`ssn`),
  KEY `dno` (`dno`),
  CONSTRAINT `employee_ibfk_1` FOREIGN KEY (`dno`) REFERENCES `department`
(`dnumber`),
  CONSTRAINT `employee_ibfk_2` FOREIGN KEY (`dno`) REFERENCES `department`
(`dnumber`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Table structure for table `machinery`
--

```

```

DROP TABLE IF EXISTS `machinery`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `machinery` (
  `machine_id` int(11) NOT NULL,
  `date_purchase` date NOT NULL,

```

```

`model_no` int(11) NOT NULL,
`dno` int(11) NOT NULL,
PRIMARY KEY (`dno`,`model_no`,`machine_id`),
CONSTRAINT `machinery_ibfk_1` FOREIGN KEY (`dno`) REFERENCES `department`
(`dnumber`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;
--
-- Table structure for table `manager`
--

```

```

DROP TABLE IF EXISTS `manager`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `manager` (
  `fname` varchar(15) NOT NULL DEFAULT 'Somanshu',
  `lname` varchar(15) NOT NULL DEFAULT 'Aggarwal',
  `sex` enum('M','F','G') NOT NULL DEFAULT 'M',
  `bdate` date NOT NULL DEFAULT '1967-08-25',
  `address` varchar(50) NOT NULL DEFAULT '17 Parshvnath Nagar, Indore',
  `office_no` char(11) NOT NULL DEFAULT '09425316394',
  `home_no` char(11) NOT NULL DEFAULT '09425316395',
  `super_id` int(11) NOT NULL DEFAULT '1',
  PRIMARY KEY (`super_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Table structure for table `orders`
--

```

```

DROP TABLE IF EXISTS `orders`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `orders` (
  `dealer_id` int(11) NOT NULL,
  `order_no` int(11) NOT NULL,
  `amount_order` int(11) NOT NULL DEFAULT '0',
  `cost_kg` decimal(10,2) NOT NULL DEFAULT '0.00',
  `date_of_delivery` date DEFAULT NULL,
  `date_of_order` date NOT NULL,
  PRIMARY KEY (`dealer_id`,`order_no`),
  CONSTRAINT `orders_ibfk_1` FOREIGN KEY (`dealer_id`) REFERENCES `dealer` (`id`) ON
DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Table structure for table `profitable_customer`
--

```

--

```
DROP TABLE IF EXISTS `profitable_customer`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `profitable_customer` (
  `pid` int(11) NOT NULL,
  `bdate` date DEFAULT NULL,
  `ann_date` date DEFAULT NULL,
  PRIMARY KEY (`pid`),
  CONSTRAINT `profitable_customer_ibfk_1` FOREIGN KEY (`pid`) REFERENCES `customers`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;
```

--

-- Table structure for table `transport`

--

```
DROP TABLE IF EXISTS `transport`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `transport` (
  `type` varchar(15) NOT NULL,
  `model_no` int(11) NOT NULL,
  `reg_no` int(11) NOT NULL,
  `essn` char(9) NOT NULL,
  PRIMARY KEY (`model_no`,`reg_no`,`essn`),
  KEY `essn` (`essn`),
  CONSTRAINT `transport_ibfk_1` FOREIGN KEY (`essn`) REFERENCES `employee` (`ssn`) ON
DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
/*!40101 SET character_set_client = @saved_cs_client */;
```

--

-- Table structure for table `wages`

--

```
DROP TABLE IF EXISTS `wages`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `wages` (
  `dno` int(11) NOT NULL,
  `hours_work` decimal(2,0) NOT NULL,
  `wages_hour` decimal(10,2) NOT NULL DEFAULT '10.00',
  PRIMARY KEY (`dno`),
  CONSTRAINT `wages_ibfk_1` FOREIGN KEY (`dno`) REFERENCES `department` (`dnumber`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
```

```
-- Table structure for table `workers`
```

```
--
```

```
DROP TABLE IF EXISTS `workers`;
```

```
/*!40101 SET @saved_cs_client = @@character_set_client */;
```

```
/*!40101 SET character_set_client = utf8 */;
```

```
CREATE TABLE `workers` (
```

```
  `fname` varchar(15) NOT NULL,
```

```
  `lname` varchar(15) NOT NULL,
```

```
  `join_date` date NOT NULL,
```

```
  `leave_date` date DEFAULT NULL,
```

```
  `ssn` char(9) NOT NULL,
```

```
  `sex` enum('M','F','G') NOT NULL,
```

```
  `bdate` date DEFAULT NULL,
```

```
  `dno` int(11) NOT NULL,
```

```
  `address` char(50) DEFAULT NULL,
```

```
  `phone_no` char(11) NOT NULL,
```

```
  `super_ssn` char(9) NOT NULL,
```

```
  PRIMARY KEY (`ssn`),
```

```
  KEY `super_ssn` (`super_ssn`),
```

```
  KEY `dno` (`dno`),
```

```
  CONSTRAINT `workers_ibfk_1` FOREIGN KEY (`super_ssn`) REFERENCES `employee` (`ssn`)  
ON DELETE CASCADE ON UPDATE CASCADE,
```

```
  CONSTRAINT `workers_ibfk_2` FOREIGN KEY (`dno`) REFERENCES `department` (`dnumber`)  
ON DELETE CASCADE ON UPDATE CASCADE
```

```
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```