

# Human Resource Management

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*The project "HR management" depicts the use of distributed database.*

*The Employee table is distributed over the network and fragmented using various methodology.*

*This document contains all the data regarding the spawn of the database, queries of table creation, triggers used in the environment, as well as a few examples on insert query.*

## QUERIES:

### Table creation: Employee

```
CREATE TABLE `employee` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

### Table creation: salfrag1

```
CREATE TABLE `salfrag1` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

### Table creation: salfrag2

```
CREATE TABLE `salfrag2` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL
```

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

#### Table creation: locfrag1

```
CREATE TABLE `locfrag1` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

#### Table creation: locfrag2

```
CREATE TABLE `locfrag2` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

#### Table creation: deptfrag1

```
CREATE TABLE `deptfrag1` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

#### Table creation: deptfrag2

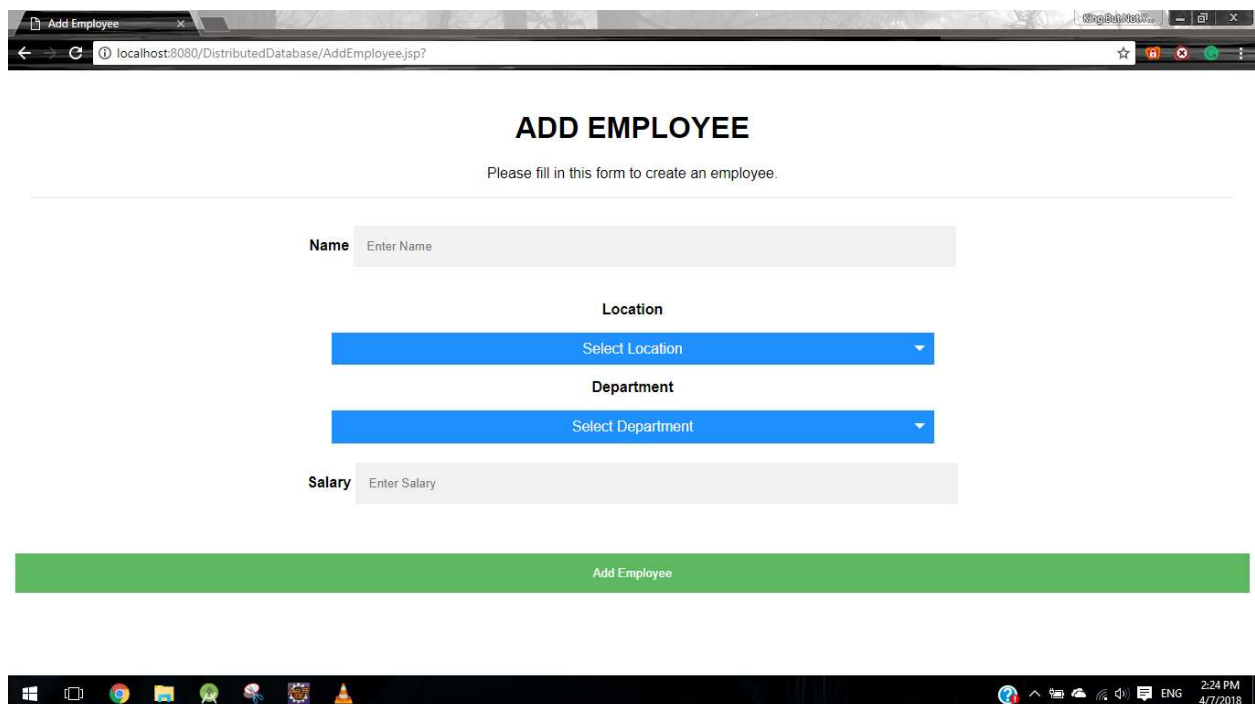
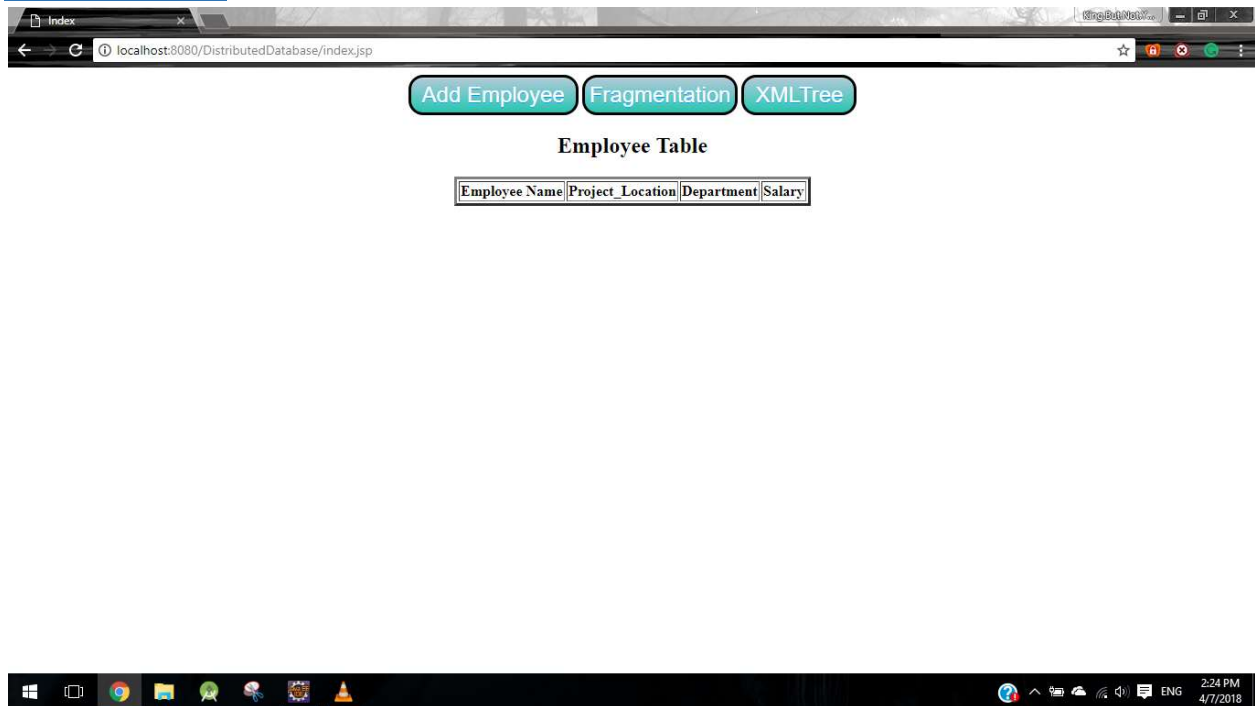
```
CREATE TABLE `deptfrag2` (  
  `empname` varchar(255) NOT NULL,  
  `project_location` varchar(45) NOT NULL,  
  `department` varchar(45) NOT NULL,  
  `salary` varchar(45) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

## TRIGGERS:

### Trigger creation: trigger

```
CREATE DEFINER=`root`@`localhost` TRIGGER `trigger` AFTER insert ON `employee`  
  
FOR EACH ROW  
  
BEGIN  
  
Delete from locfrag1;  
  
Insert into locfrag1  
        Select * from employee where project_location = 'Mumbai';  
  
Delete from locfrag2;  
  
Insert into locfrag2  
        Select * from employee where project_location = 'Delhi';  
  
Delete from salfrag1;  
  
Insert into salfrag1  
        Select * from employee where salary < 100000;  
  
Delete from salfrag2;  
  
Insert into salfrag2  
        Select * from employee where salary >= 100000;  
  
Delete from deptfrag1;  
  
Insert into deptfrag1  
        Select * from employee where department = 'Computer Science';  
  
Delete from deptfrag2;  
  
Insert into deptfrag2 Select * from employee where department = 'Production';  
  
END
```

## SCREENSHOTS:





[Add Employee](#) [Fragmentation](#) [XMLTree](#)

### Employee Table

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000



### Employee Table

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000

### Location\_Fragment\_1 - Mumbai

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000

### Location\_Fragment\_2 - Delhi

Employee Name	Project_Location	Department	Salary
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### Employee Table

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000

### Location\_Fragment\_1 - Computer Science

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000

### Location\_Fragment\_2 - Production

Employee Name	Project_Location	Department	Salary
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### Employee Table

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000

### Location\_Fragment\_1 - < 1,00,000

Employee Name	Project_Location	Department	Salary
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### Location\_Fragment\_2 - Salary >= 1,00,000

Employee Name	Project_Location	Department	Salary
shantanu	Mumbai	Computer Science	100000



