Heteng. Zhang

Store:

DDL for zhhe6366.Store

```
1    CREATE TABLE `Store` (
2      `storeID` int(11) NOT NULL,
3      `address` varchar(45) NOT NULL,
4      PRIMARY KEY (`storeID`)
5    ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Department1:

DDL for zhhe6366.department1

```
1    CREATE TABLE `department1` (
2      `deptName` varchar(45) NOT NULL,
3      PRIMARY KEY (`deptName`)
4    ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Inventory:

DDL for zhhe6366.Inventory

```
1    CREATE TABLE `Inventory` (
2      `storeID` int(11) NOT NULL,
3      `itemID` int(11) NOT NULL,
4      `quantity` char(1) DEFAULT NULL,
5      `price` char(1) DEFAULT NULL,
6      PRIMARY KEY (`storeID`,`itemID`),
7      KEY `itemID1_idx` (`itemID`),
8      CONSTRAINT `itemID1` FOREIGN KEY (`itemID`) REFERENCES `Item` (`itemID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
9      CONSTRAINT `storeID1` FOREIGN KEY (`storeID`) REFERENCES `Store` (`storeID`) ON DELETE NO ACTION ON UPDATE NO ACTION
10   ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Item:

DDL for zhhe6366.Item

```sql
1   CREATE TABLE `Item` (
2     `itemID` int(11) NOT NULL,
3     `itemName` varchar(45) NOT NULL,
4     `deptName` varchar(45) NOT NULL,
5     PRIMARY KEY (`itemID`),
6     KEY `deptName1_idx` (`deptName`),
7     CONSTRAINT `departmentname` FOREIGN KEY (`deptName`) REFERENCES `department1` (`deptName`) ON DELETE NO ACTION ON UPDATE NO ACTION
8   ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Lineitem:

DDL for zhhe6366.LineItem

```sql
1    CREATE TABLE `LineItem` (
2      `itemID` int(11) NOT NULL,
3      `time` char(10) NOT NULL,
4      `date` varchar(45) NOT NULL,
5      `empID` int(11) NOT NULL,
6      `quantity` char(1) DEFAULT NULL,
7      PRIMARY KEY (`itemID`,`time`,`date`,`empID`),
8      KEY `time1_idx` (`time`),
9      KEY `employ1_idx` (`empID`),
10     CONSTRAINT `Item1` FOREIGN KEY (`itemID`) REFERENCES `Item` (`itemID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
11     CONSTRAINT `employ1` FOREIGN KEY (`empID`) REFERENCES `Employee` (`empID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
12     CONSTRAINT `time1` FOREIGN KEY (`time`) REFERENCES `Transaction` (`date`) ON DELETE NO ACTION ON UPDATE NO ACTION
13   ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Member:

DDL for zhhe6366.Member

```sql
1    CREATE TABLE `Member` (
2      `memberID` int(11) NOT NULL,
3      `memberName` varchar(45) NOT NULL,
4      PRIMARY KEY (`memberID`)
5    ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Section:

DDL for zhhe6366.section

```sql
1    CREATE TABLE `section` (
2      `classNo` char(6) NOT NULL,
3      `sectionNo` int(11) NOT NULL,
4      `facID` int(3) NOT NULL,
5      PRIMARY KEY (`classNo`,`sectionNo`),
6      KEY `faculty_idx` (`facID`),
7      KEY `classof_idx` (`classNo`),
8      CONSTRAINT `classof` FOREIGN KEY (`classNo`) REFERENCES `class` (`classNo`) ON DELETE NO ACTION ON UPDATE NO ACTION,
9      CONSTRAINT `faculty` FOREIGN KEY (`facID`) REFERENCES `teacher` (`facID`) ON DELETE NO ACTION ON UPDATE NO ACTION
10   ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

StoreDepartment:

```
DDL for zhhe6366.StoreDepartment

1   ⊖  CREATE TABLE `StoreDepartment` (
2         `storeID` int(11) NOT NULL,
3         `deptName` varchar(45) NOT NULL,
4         PRIMARY KEY (`storeID`,`deptName`),
5         KEY `deepartment1_idx` (`deptName`),
6         CONSTRAINT `StoreName1` FOREIGN KEY (`storeID`) REFERENCES `Store` (`storeID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
7         CONSTRAINT `deepartment1` FOREIGN KEY (`deptName`) REFERENCES `department1` (`deptName`) ON DELETE NO ACTION ON UPDATE NO ACTION
8       ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Student:

```
DDL for zhhe6366.Student

1   ⊖  CREATE TABLE `Student` (
2         `studentID` int(6) NOT NULL,
3         `firstName` varchar(45) NOT NULL,
4         `lastName` varchar(45) NOT NULL,
5         `address` varchar(45) NOT NULL,
6         `gradYear` int(4) NOT NULL,
7         `advisorID` int(3) NOT NULL,
8         PRIMARY KEY (`studentID`),
9         KEY `advisor_idx` (`advisorID`),
10        CONSTRAINT `advisor` FOREIGN KEY (`advisorID`) REFERENCES `teacher` (`facID`) ON DELETE NO ACTION ON UPDATE NO ACTION
11      ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Teacher:

```
DDL for zhhe6366.teacher

1   ⊖  CREATE TABLE `teacher` (
2         `facID` int(3) NOT NULL,
3         `firstName` varchar(45) NOT NULL,
4         `lastName` varchar(45) NOT NULL,
5         `address` varchar(45) NOT NULL,
6         PRIMARY KEY (`facID`)
7       ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Training:

```
1   ⊖  CREATE TABLE `Training` (
2         `empID` int(11) NOT NULL,
3         `deptName` varchar(45) NOT NULL,
4         PRIMARY KEY (`empID`,`deptName`),
5         KEY `deptName_idx` (`deptName`),
6         CONSTRAINT `deptNameof` FOREIGN KEY (`deptName`) REFERENCES `department1` (`deptName`) ON DELETE NO ACTION ON UPDATE NO ACTION,
7         CONSTRAINT `employeeof` FOREIGN KEY (`empID`) REFERENCES `Employee` (`empID`) ON DELETE NO ACTION ON UPDATE NO ACTION
8       ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```

Transaction:

```sql
1    CREATE TABLE `Transaction` (
2      `time` char(10) NOT NULL,
3      `date` varchar(45) NOT NULL,
4      `empID` int(11) NOT NULL,
5      `memberID` int(11) NOT NULL,
6      PRIMARY KEY (`date`,`time`,`empID`),
7      KEY `employeeof_idx` (`time`),
8      KEY `employee_idx` (`empID`),
9      KEY `member_idx` (`memberID`),
10     CONSTRAINT `employee` FOREIGN KEY (`empID`) REFERENCES `Employee` (`empID`) ON DELETE NO ACTION ON UPDATE NO ACTION,
11     CONSTRAINT `member` FOREIGN KEY (`memberID`) REFERENCES `Member` (`memberID`) ON DELETE NO ACTION ON UPDATE NO ACTION
12   ) ENGINE=InnoDB DEFAULT CHARSET=latin1
```