

```
/* BuchananBrandonHW5PartA.sql
```

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Programmer's Name: Brandon Buchanan
```

```
Course: CSCI2020
```

```
Section Number: 002
```

```
Creation Date: 10/31/2011
```

```
Date of Last Modification: 11/5/2011
```

```
E-mail address: zbwb8@goldmail.etsu.edu  
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```

```
Purpose -
```

```
Homework 5 - Part A
```

```
Creating tables, filling tables with data  
-----
```

```
Notes on specifications, special algorithms, and assumptions:
```

```
Designed to work on the database created by the schooldb.sql
```

```
script
```

```
*/
```

```
/* PART A */
```

```
/* 1. - Create tables as described in the homework, including foreign keys and  
restraints. */
```

```
create table Item (  
  ItemID varchar(10) primary key,  
  ItemName varchar(20),  
  Cost number(10,0)  
    check(Cost>0)  
);
```

```
create table SalesPerson (  
  SPID varchar(10) primary key,  
  PersonName varchar(20),  
  Salary number(7,0)  
    check(Salary>0)  
);
```

```
create table Customer (  
  CustID varchar(10) primary key,  
  CustomerName varchar(20),  
  Budget number(3,0)  
    check(Budget>0 and Budget<1000)  
);
```

```
create table Sale (  
  OrderID varchar(10) primary key,  
  SPID varchar(10) references SalesPerson on delete set null,  
  CustID varchar(10) references Customer on delete set null,  
  Taxable varchar(5)  
    check(Taxable in ('True','False')),  
  SaleDate date not null  
);
```

```
create table Detail (  
    OrderID varchar(10) references Sale on delete cascade,  
    ItemID varchar(10) references Item on delete cascade,  
    primary key(OrderID, ItemID)  
);
```

```
/* 2. - Populate the tables as described in the homework. */
```

```
insert into Item values ('I-401','Tardis',1000);  
insert into Item values ('I-402','Screwdriver',5);  
insert into Item values ('I-403','Celery',100);  
insert into Item values ('I-404','Scarf',50);
```

```
insert into SalesPerson values ('SP-101','Doctor','400');  
insert into SalesPerson values ('SP-102','Master','30');  
insert into SalesPerson values ('SP-103','Rani','500');
```

```
insert into Customer values ('C-201','Borusa',200);  
insert into Customer values ('C-202','Leela',300);  
insert into Customer values ('C-203','Adric',10);  
insert into Customer values ('C-204','Doctor',290);
```

```
insert into Sale values ('O-301','SP-101','C-201','True','05-DEC-2003');  
insert into Sale values ('O-302','SP-101','C-201','True','05-DEC-2003');  
insert into Sale values ('O-303','SP-101','C-201','True','05-DEC-2003');  
insert into Sale values ('O-304','SP-101','C-201','True','05-DEC-2003');
```

```
insert into Detail values ('O-301','I-401');  
insert into Detail values ('O-302','I-402');  
insert into Detail values ('O-302','I-404');  
insert into Detail values ('O-303','I-403');  
insert into Detail values ('O-304','I-401');  
insert into Detail values ('O-304','I-402');  
insert into Detail values ('O-304','I-403');  
insert into Detail values ('O-304','I-404');
```

```
/* drop table Detail;  
drop table Sale;  
drop table Customer;  
drop table SalesPerson;  
drop table Item; */
```

-3 table not capitalized.

```
/* BuchananBrandonHW5PartB.sql
```

```
-----  
Programmer's Name: Brandon Buchanan
```

```
Course: CSCI2020
```

```
Section Number: 002
```

```
Creation Date: 10/31/2011
```

```
Date of Last Modification: 11/5/2011
```

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E-mail address: zbwb8@goldmail.etsu.edu  
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```

```
Purpose -
```

```
Homework 5 - Part B
```

```
Updating tables  
-----
```

```
Notes on specifications, special algorithms, and assumptions:
```

```
Designed to work on the database created by the schooldb.sql  
script
```

```
*/
```

```
/* PART B */
```

```
/* 1. - Updates sales that took place on Dec. 5, 2003 to Dec. 5, 2004 */
```

```
update SALE
```

```
set SALE.SALEDATE = '05-DEC-2004'
```

```
where SALE.SALEDATE = '05-DEC-2004';
```

```
/* 2. - Give anyone named Doctor a 10% raise. */
```

```
update SALESPERSON
```

```
set SALESPERSON.SALARY *= 1.1
```

```
where SALESPERSON.PERSONNAME = 'Doctor';
```

```
/* 3. - Delete the sales person with ID SP-103 */
```

```
delete from SALESPERSON
```

```
where SALESPERSON.SPID = 'SP-103';
```

```
/*
```

```
4. You cannot delete item I-404 because Detail.ItemID is a foreign key and  
contains a reference to I-404.
```

```
5. The row is added to the table. Since both columns of Detail table is a  
part of its primary key and there are no other references to I-304 and I-405  
in a particular row, the row is added to the table.
```

```
*/ It will not add the row since the ItemId is a foreign key and  
I-405 does not exist in the primary key of the Item table.
```