

## Assignment 5

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①

```
CREATE TABLE Receipt-Item (  
    ReceiptId INTEGER REFERENCES Receipt(Id),  
    ProductId INTEGER REFERENCES Product(Id),  
    Quantity INTEGER,  
    CONSTRAINT Receipt-Item-pk PRIMARY KEY (ReceiptId, ProductId)  
);
```

②

```
CREATE TABLE Receipt(  
    Id INTEGER PRIMARY KEY,  
    IssuedOn DATE,  
    StoreId INTEGER REFERENCES Store(Id)  
);
```

③

```
CREATE TABLE Product(  
    Id INTEGER PRIMARY KEY,  
    Name VARCHAR(20),  
    CategoryId INTEGER REFERENCES Category(Id),  
    Price INTEGER  
);
```

④ CREATE TABLE Store(  
Id INTEGER PRIMARY KEY,  
Name VARCHAR(20)  
);

⑤ CREATE TABLE Category(  
Id INTEGER PRIMARY KEY,  
Name VARCHAR(20)  
);

⑥ SELECT Id, Name  
FROM Product  
WHERE CategoryId = 1;

⑦ SELECT AVG(Price), COUNT(\*) AS TotalProd  
FROM Product  
WHERE CategoryId = 1;

⑧ SELECT Cat.Id, Cat.Name, COUNT(\*) AS NoOfProd  
FROM Category Cat INNER JOIN Product Prod  
ON Cat.Id = Prod.CategoryId  
GROUP BY Cat.Id, Cat.Name;

⑨ SELECT Cat.Id, Cat.Name, COUNT(\*) AS NoOfProd  
FROM Product Prod RIGHT OUTER JOIN Category Cat  
ON Cat.Id = Prod.CategoryId  
GROUP BY Cat.Id, Cat.Name;