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EXAM 1 C.EZEMA

Advance Database

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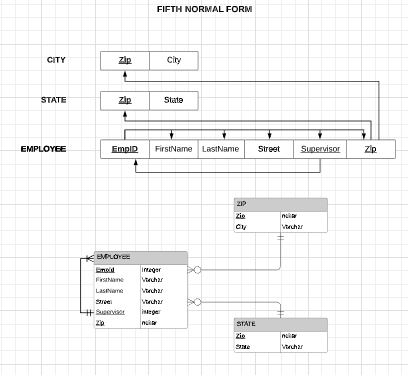
[Full Join 9](#_Toc19664952)

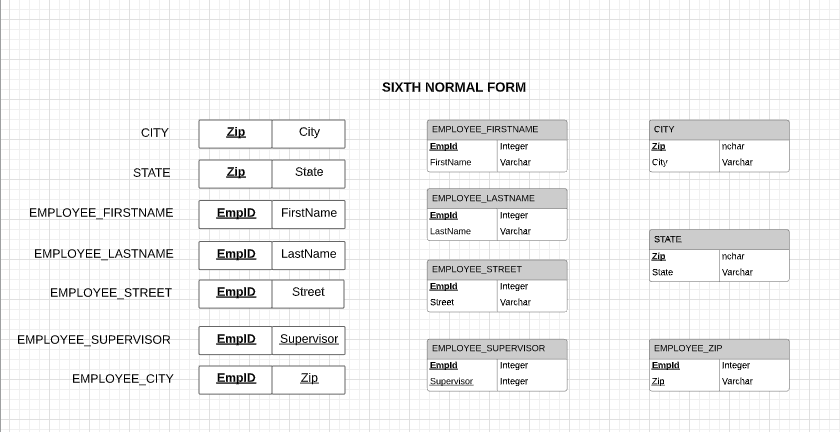
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# Create Table Design using 5th and 6th Normal forms.





## Create Database

## Data Dictionary of labels, data types, constraints for Table Design.

C\_EZEMA\_EXAM1 – DATA DICTIONARY

Table: **HR.Employee**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Check** | **Allow Nulls** | **Index** |
| EmpID | **PK**; Unique Employee ID | varchar | 10 |  |  |  |  |  | Y |
| FirstName | Employee First Name | varchar | 40 |  |  |  |  |  |  |
| LastName | Employee Last Name | varchar | 40 |  |  |  |  |  |  |
| DOB | Employee DOB | date |  |  |  |  | >= '1963-01-01' |  |  |
| PhoneNumber | Employee Phone # | varchar | 13 |  |  |  |  |  |  |
| Salary | Employee Salary | Money |  |  |  |  |  |  |  |
| Email | Personal E-mail | varchar | 255 |  |  |  |  |  |  |
| Zip | Field zip | nchar | 5 |  |  | 33620 | LIKE '[0-9][0-9] [0-9][0-9][0-9]' |  |  |

Table: **Prod.Product**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Check** | **Allow Nulls** | **Index** |
| PID | **PK**; Unique Product ID | smallint |  |  |  |  |  |  | Y |
| Name | Product Name | varchar | 14 |  |  |  |  |  |  |
| Type | Product Type | varchar | 14 |  |  | ‘Website’ |  |  |  |
| Price | Product Price | money |  |  |  |  |  |  |  |

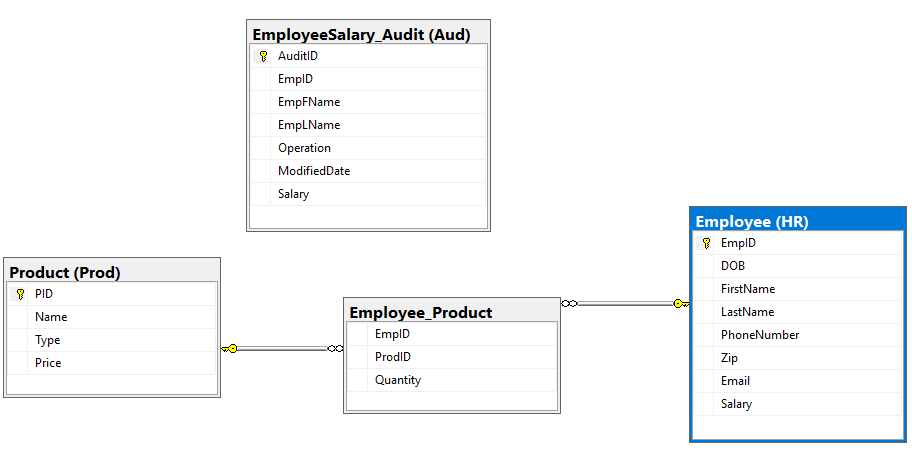
Table: **Aud.EmployeeSalary\_Audit**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Check** | **Allow Nulls** | **Index** |
| AuditID | **PK**; Unique Audit ID | smallint |  |  |  |  |  |  | Y |
| EmpFName | Employee First Name | varchar | 40 |  |  |  |  |  |  |
| EmpLName | Employee Last Name | varchar | 40 |  |  |  |  |  |  |
| Operation | Employee DOB | varchar | 3 |  |  |  |  |  |  |
| ModifiedDate | Employee Phone # | date |  |  |  |  |  |  |  |
| Salary | Employee Salary | money |  |  |  |  |  |  |  |

Table: **dbo.Employee\_Product**

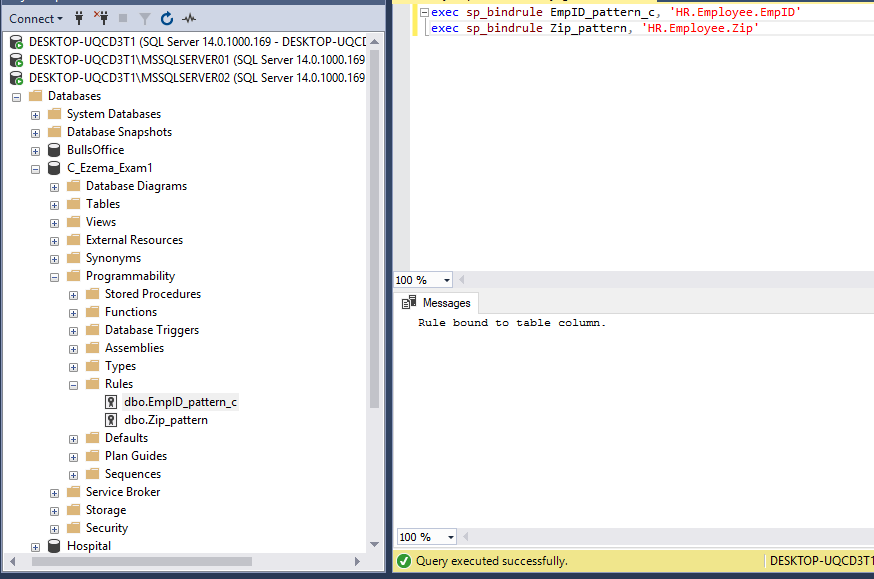
|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Column Name** | **Description** | **Data Type** | **Size** | **Identity** | **Unique** | **Default** | **Check** | **Allow Nulls** | **Index** |
| EmpID | **FK**; Employee ID | varchar | 10 |  |  |  |  |  |  |
| ProdID | **FK**; Product ID | smallint |  |  |  |  |  |  |  |
| Quantity | Product Type | smallint |  |  |  |  |  |  |  |

## Database diagram for each schema with PK/FK Relationships.



## Checks and Defaults

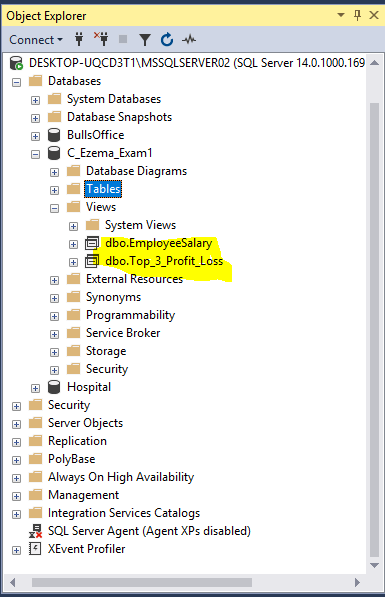
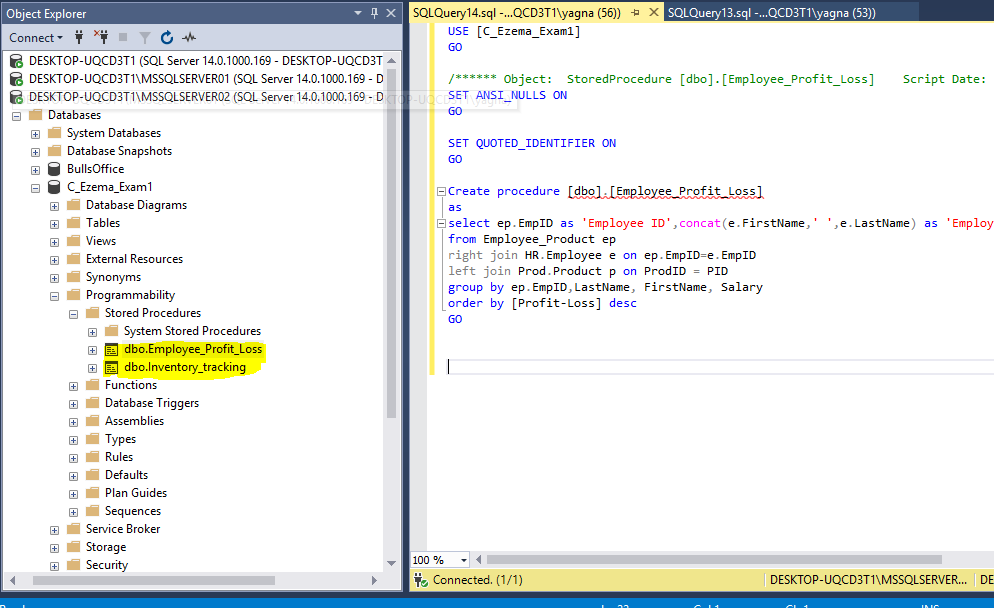
## Rules



## Triggers

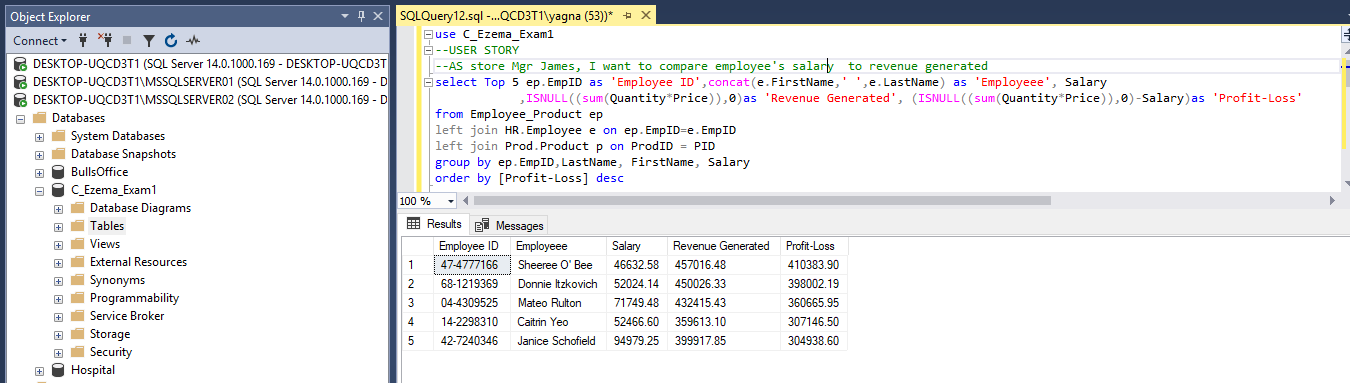
### Trigger 2

# Views and SPROCs using Joins and Aggregators

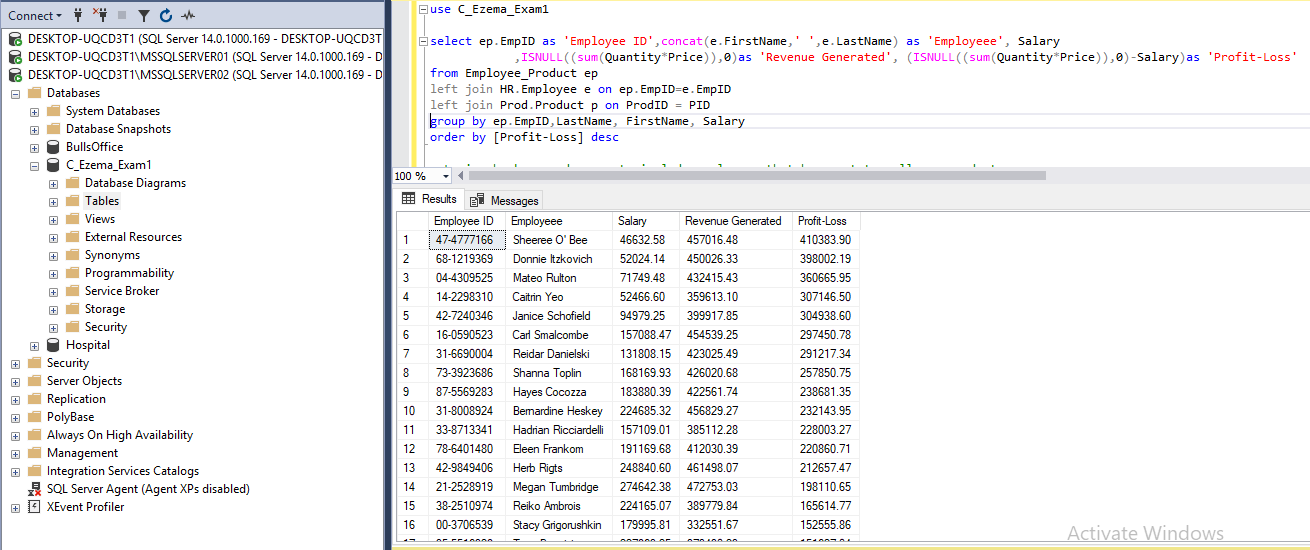
 

# USER STORIES

### Left Join

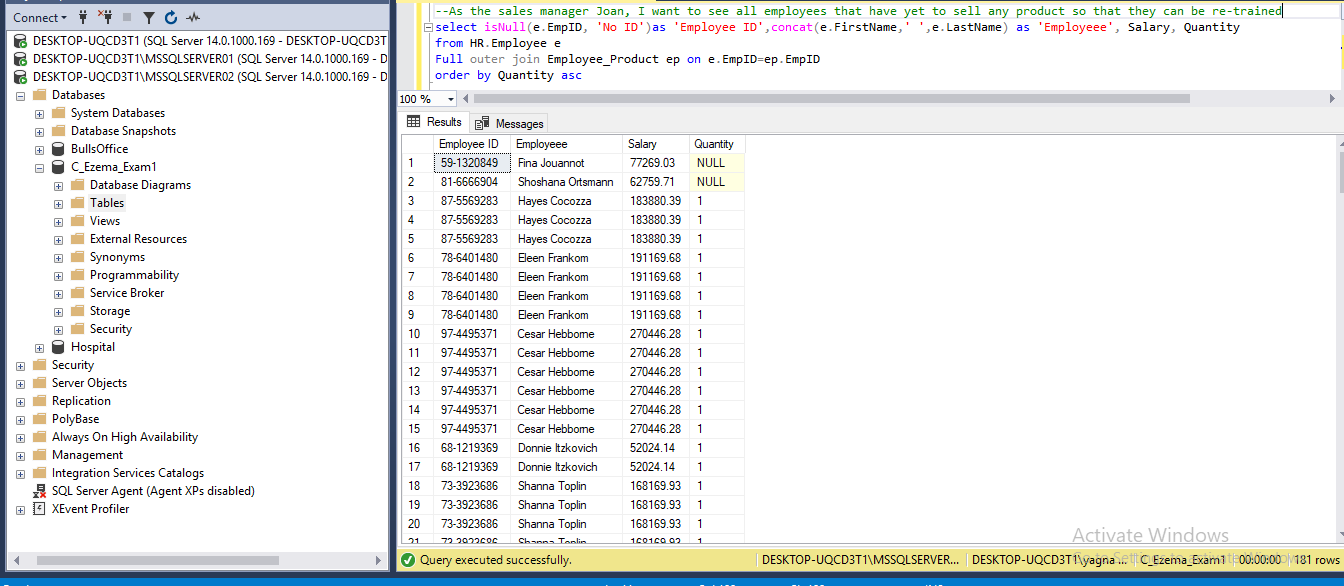
As the store Manager James, I want to know my Top 5 employees so that they are recognized.

### Logic Check:

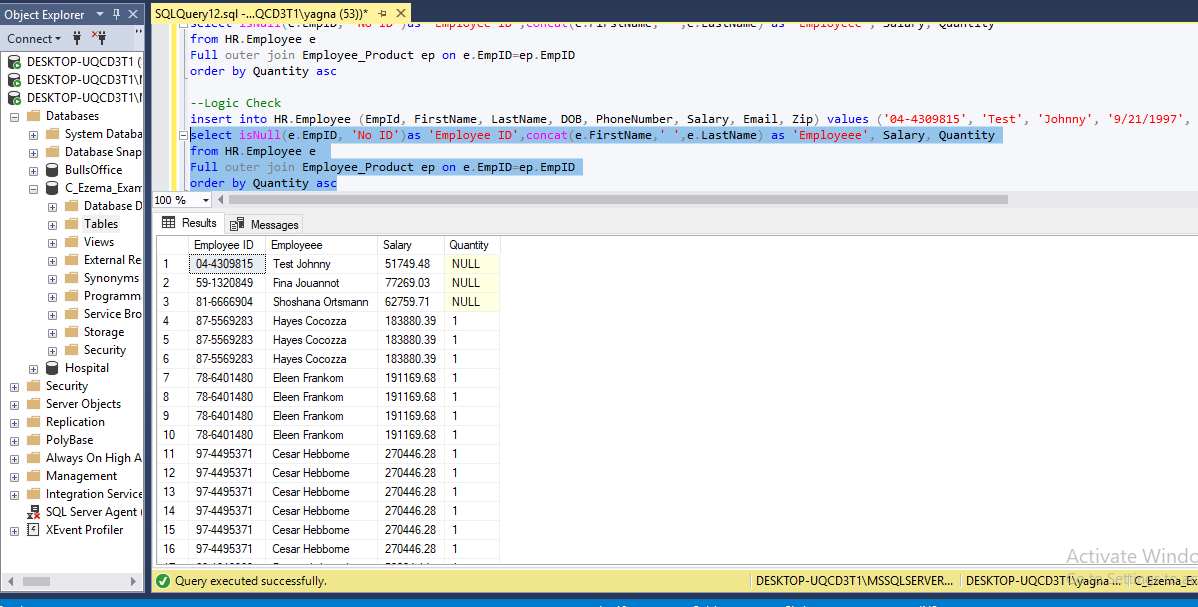
Expanded the query results from showing only top 5 to showing profit-Loss for all employees

### Full Join

As the sales manager Joan, I want to see all employees that have yet to sell any product so that they can be re-trained

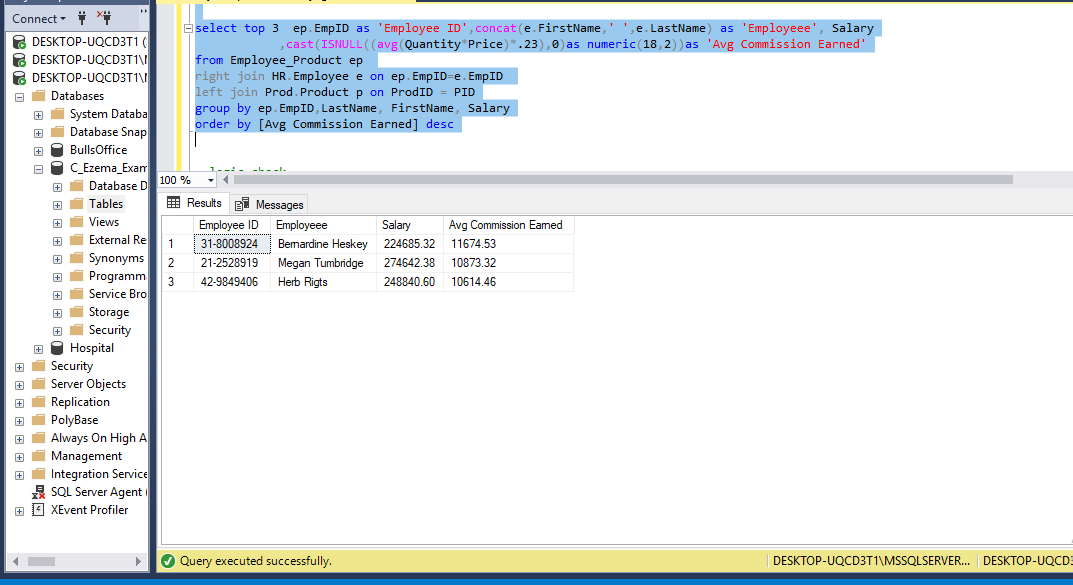


### Logic Check:

Added a new user Johnny Test to see if he would be populated when query was refreshed

### Right Join

As store owner Jackie, I want to know the average earnings of each my top 3 sales rep so that they can used for benchmarking



Logic Check :

Expanding from top 3 to see the avg earnings of all employees

