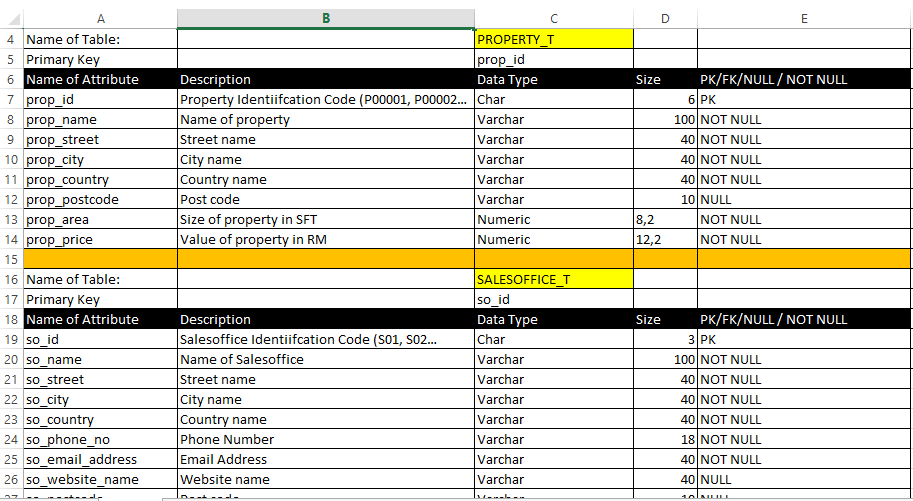
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**1.0 DATABASE SCHEMA** **(STRUCTURE OF DATABASE TABLES / DATA DICTIONARY)**

**1.1 Database Schema**

****

**1.2** Finalized ERD (Entity Relationship Diagram) – Output of the Conceptual database design phase

- Attach here your ERD

**1.3** Finalized EERD (Enhanced Entity Relationship Diagram) – Output of the Logical database design phase

**-** Attach here your EERD

**1.4 Database diagram generated from the MS SQL Server 201X**

Once you set all PKs (Primary Keys) and FKs (Foreign Keys), then how to generate the database

diagram from the MS SQL Server?

Step 1: Go to your MS SQL Server 201x.

Step 2: Select your database

Step 3: Right click on ‘Database Diagrams’

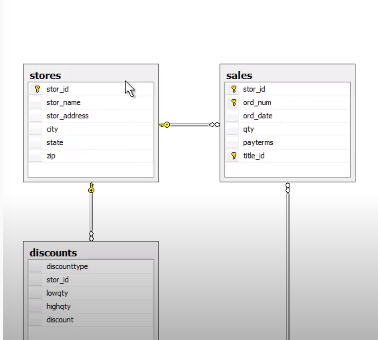
Step 4: Select ‘New Database Diagram’

Step 5: Select all the database tables and click ‘Add’

Step 6: Copy a screenshot and attach it below. That is all.

For en example, the database diagram generated from the MS SQL Server 201x looks as below.

Or watch this video <https://www.youtube.com/watch?v=N6PhiiXJMeU>

****

2.0: **SQL-DATA DEFINITION LANGUAGE (DDL)**

2.1 SQL DDL USED

2.1.1 SQL DDL used to create the table (OWNER\_T)

-- 2.1 SQL DDL USED

-- 2.1.1 SQL DDL used to create the PROPERTY\_T table

-- 2.1 SQL DDL USED

-- 2.1.1 SQL DDL used to create the PROPERTY\_T table

CREATE TABLE PROPERTY\_T (

prop\_id Char(6) NOT NULL,

prop\_name Varchar(100) NOT NULL,

prop\_street Varchar(40) NULL,

prop\_city Varchar(40) NULL,

prop\_country Varchar(40) NOT NULL,

prop\_postcode Varchar(10) NULL,

prop\_area Numeric(8,2) NOT NULL,

prop\_uom Char(1) NOT NULL,

prop\_price Numeric(12,2) NOT NULL

--2.1.2 SQL DDL Commands to create Pimary Key

ALTER TABLE PROPERTY\_T

ADD CONSTRAINT PK\_prop\_id

PRIMARY KEY (prop\_id)

## )) 2. 1. 2 SQL DDL used to create the table (OWNER\_PHONE\_T)

CREATE TABLE OWNER\_PHONE\_T

( own\_id Char(5) NOT NULL,

own\_phonenumber Varchar(25) NOT NULL,

own\_score Numeric(5,0) NOT NULL,

PRIMARY KEY (own\_id,own\_phonenumber),

FOREIGN KEY (own\_id) REFERENCES OWNER\_T(own\_id)

ALTER TABLE PROPERTY\_OWNERSHIP\_T

ADD CONSTRAINT FK\_own\_id

FOREIGN KEY (own\_id)

REFERENCES OWNER\_T (own\_id)

ALTER TABLE PROPERTY\_OWNERSHIP\_T

ADD CONSTRAINT FK\_prop\_id

FOREIGN KEY (prop\_id)

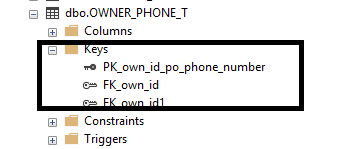
REFERENCES PROPERTY\_T (prop\_id)

DROP TABLE PROPERTY\_T

ALTER TABLE PROPERTY\_OWNERSHIP\_T

ADD CONSTRAINT PK\_prop\_id\_own\_id

PRIMARY KEY (prop\_id,own\_id)



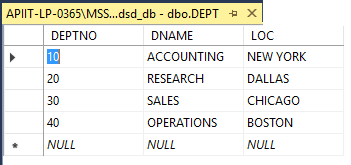
)

2.2 **Sample Data Used**

# 2.2.1 OWNER\_T Table

# 

2.2.2 OWNER\_PHONE\_T Table



# 3: 0 **SQL DML - DATA MANIPULATION LANGUAGE**

-- SQL DML commands to insert tuples into PROPERTY\_T table

INSERT INTO PROPERTY\_T(prop\_id,

prop\_name,

prop\_street,

prop\_city,

prop\_country,

prop\_postcode,

prop\_area,

prop\_uom,

prop\_price)

VALUES ('P00001','APU GROUP OF COMAPNIES', '6, JALAN TPM', 'KL','MY','57000',10.00, 'A',900000000.00)

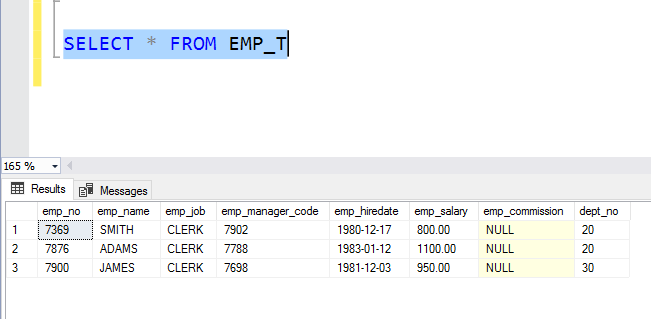
## 

## 3.1- Question 1

* 1. List the book(s) which has the highest rating. Show book id, book name, and the rating.

SELECT \* FROM EMP\_T

**SQL Server Result**

****

## 3: 2 - Question 2

* 1. Find the total number of feedback per member. Show member id, member name, and total number of feedback per member.

**SQL DML CODE**

SELECT TOP (3) c.course\_id AS 'COURSE ID',   
c.course\_name AS 'COURSE NAME' ,c.course\_cost AS 'COURSE COST',

c.course\_catagory AS 'COURSE CATAGORY',   
c.course\_duration AS 'COURSE DURATION',

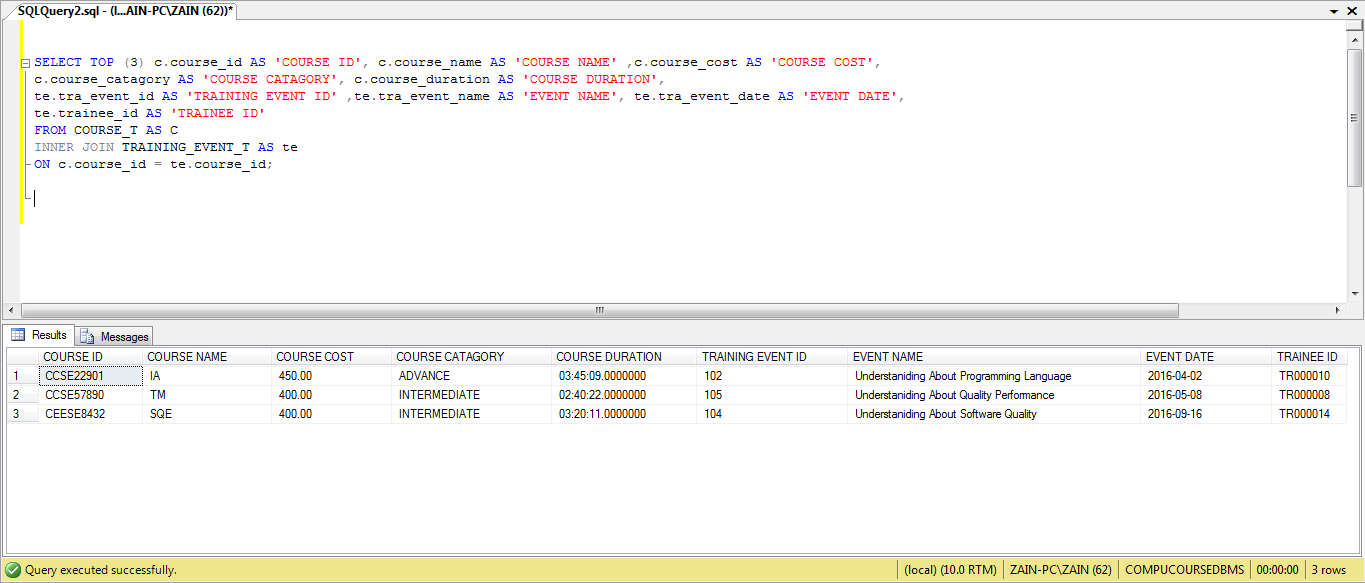
te.tra\_event\_id AS 'TRAINING EVENT ID' ,te.tra\_event\_name AS 'EVENT NAME', te.tra\_event\_date AS 'EVENT DATE',

te.trainee\_id AS 'TRAINEE ID'

FROM COURSE\_T AS C

INNER JOIN TRAINING\_EVENT\_T AS te

ON c.course\_id = te.course\_id;

**SQL Server Result**

# 4:0 **CONCLUSION**

½ page

# **WORKLOAD MATRIX**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
|
| **TASK ID** | **TASK NAME** | **DURATION  (IN DAYS/HOURS)** | **START DATE** | **END DATE** | **MEMBER(S CONTRIBUTED** |
| 1.0 | **DATABASE SCHEMA (STRUCTURE OF DATABASE TABLES / DATA DICTIONARY)** |  |  |  | Dlhason Padmakumar |
|  | **1.1 Database Schema** | 2 days | Sun,23-May-2020 | Sun,31-May-2020 | Mr.LEE,TP00000,e-signature  Miss.Chow Yee Mei,TP0000, e-signature |
|  | **1.2** Finalized ERD (Entity Relationship Diagram) – Output of Conceptual database design phase |  |  |  |  |
|  | **1.3** Finalized EERD (Enhanced Entity Relationship Diagram) – Output of Logical database design phase |  |  |  |  |
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# REFERENCES

Miss.Chow Yee Mei

Mr.