



# **Database**

# Tahaluf Training Center 2021













# Data type Format

time hh:mm:ss[.nnnnnnn]

date YYYY-MM-DD

smalldatetime YYYY-MM-DD hh:mm:ss

datetime YYYY-MM-DD hh:mm:ss[.nnn]

datetime2 YYYY-MM-DD hh:mm:ss[.nnnnnnn]

datetimeoffset YYYY-MM-DD hh:mm:ss[.nnnnnnnn] [+/-]hh:mm





The DATENAME function returns the name or value of a specific part of the date

```
SELECT DATENAME (WEEKDAY, '2019-01-14') as Datename
```

```
SELECT DATENAME ( WEEKDAY, '1998-10-24') as Datename
```





You use the GETDATE function to determine the current date and time of the computer running the <u>current SQL instance</u>. This function doesn't include the time zone difference.

```
SELECT GETDATE() as Systemdate
```

```
SELECT CURRENT_TIMESTAMP;
```

SELECT DATEADD(WEEKDAY, 7, '2017/08/25') AS DateAdd;





```
SELECT DATEADD(YEAR, 7,
'2017/08/25') AS DateAdd;
```

```
SELECT DATEADD(MONTH, 3, '2017/08/25') AS DateAdd;
```

```
SELECT DATEADD(WEEKDAY, 7,
'2017/08/25') AS DateAdd;
```





The DATEDIFF function returns the difference between two dates.

```
SELECT SalesOrderID, DATEDIFF(day,
OrderDate, ShipDate)
AS 'Processing time'
FROM Sales.SalesOrderHeader
```









### **Subqueries**



Subqueries are nested queries that make references to the current row of their outer query:

```
SELECT BusinessEntityID, JobTitle, SickLeaveHours
FROM HumanResources.Employee AS eOuter
WHERE SickLeaveHours > (
SELECT AVG(SickLeaveHours)
FROM HumanResources.Employee eInner
WHERE eInner.OrganizationLevel = eOuter.OrganizationLevel )
order by SickLeaveHours desc
```



#### **Subqueries**



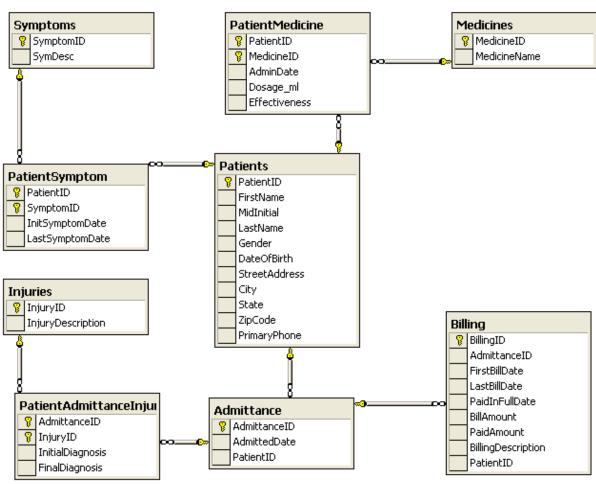
```
FROM Production.Product
WHERE ListPrice = (SELECT ListPrice
        FROM Production.Product
WHERE Name = 'Chainring Bolts' )
```



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# **Day Five Task**







## **Day Five Task**



# Day 5 Task:

- 1. Create the following database using this Database Diagram.
- 2. Then populate each table with 3 records
- 3. Create 6 stored procedures, 3 without parameters and 3 with one or more parameters using **date functions**.
- 4. Generate its script and upload it
- 5. Make sure to submit it before deadline

