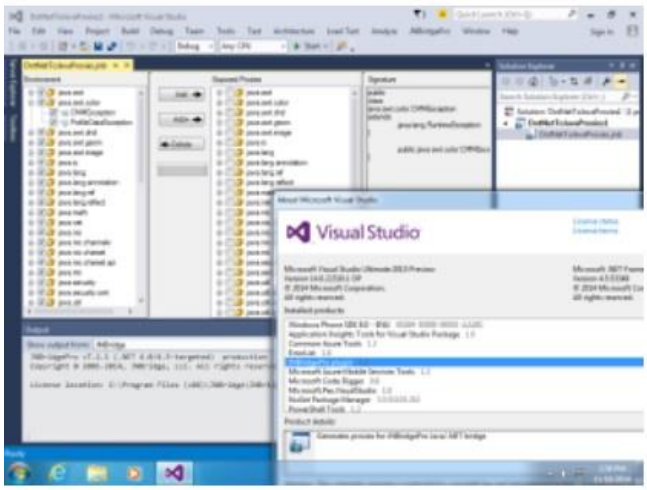
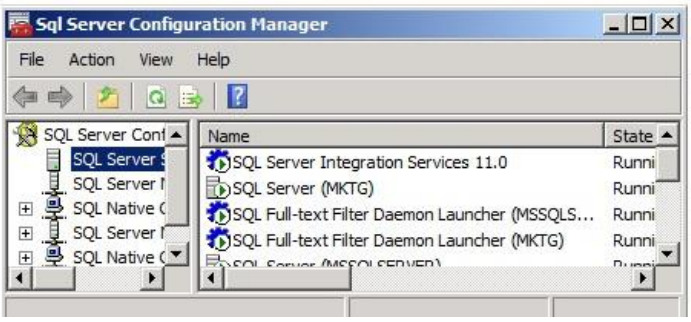
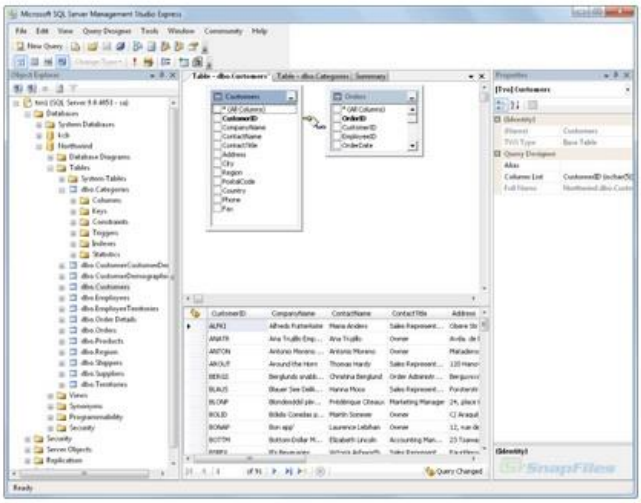
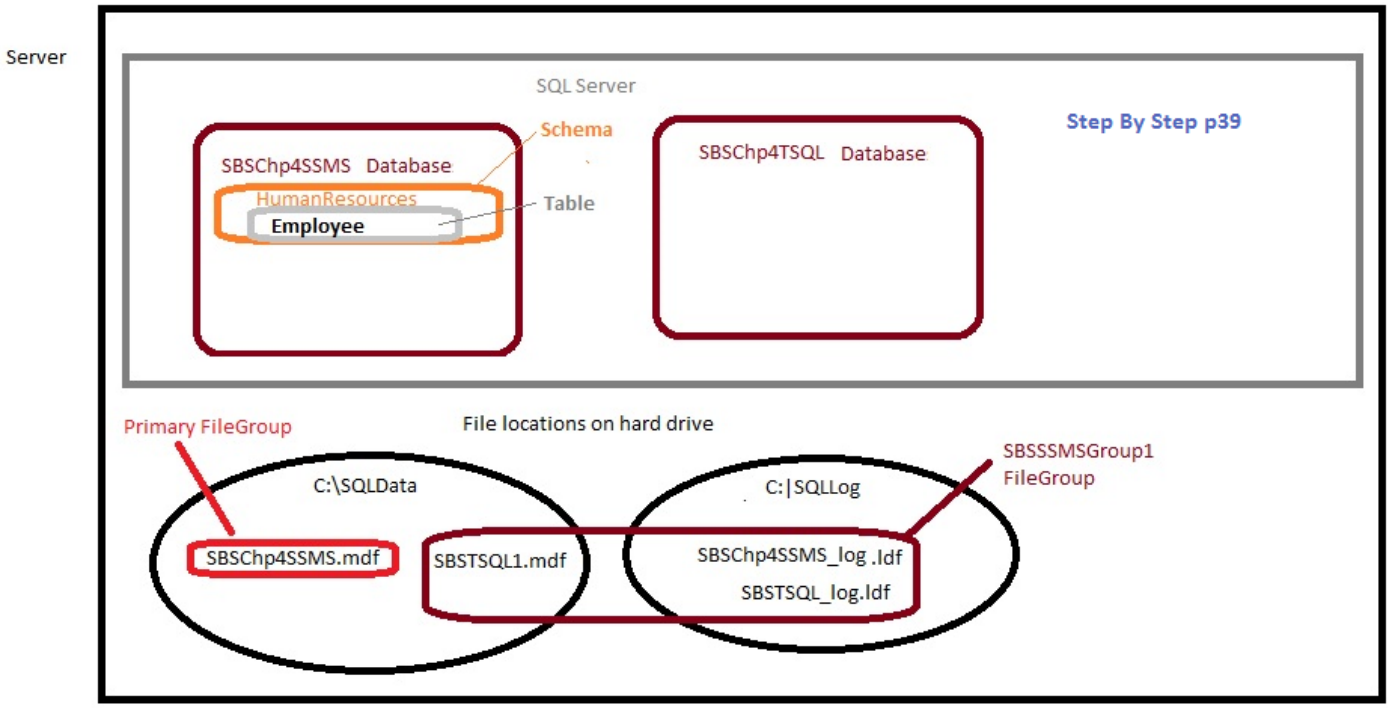


IDE - Integrated Development Environment

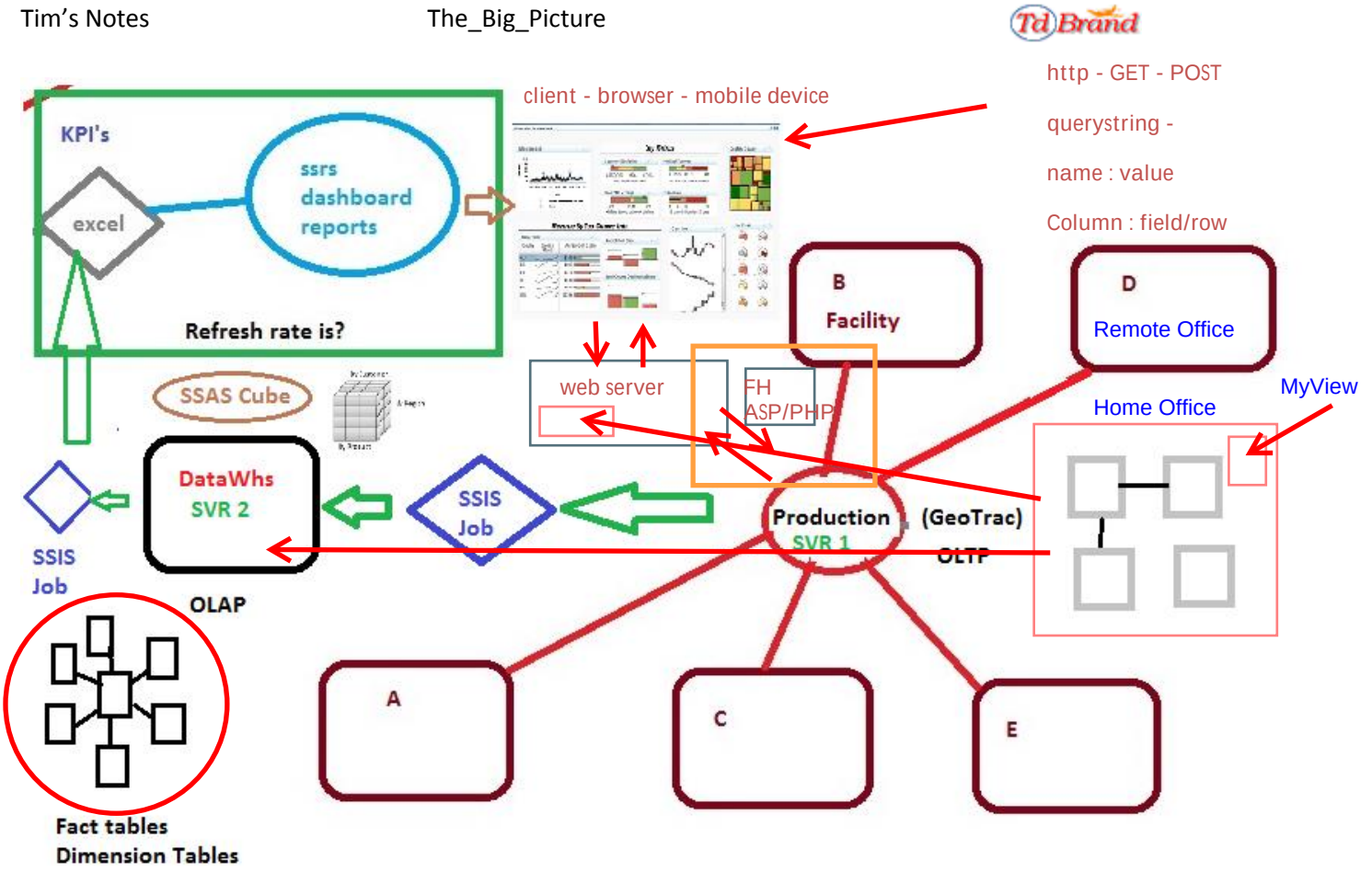
- Visual Studio - full app development - includes SQL express..
- SSMS - Visual Studio front end for managing SQL server & Dbases...
- SSDT - Visual Studio included with SQL installation as a feature with data tool templates installed..
- SSCM - SQL Configuration Manager - services & service accts & connections

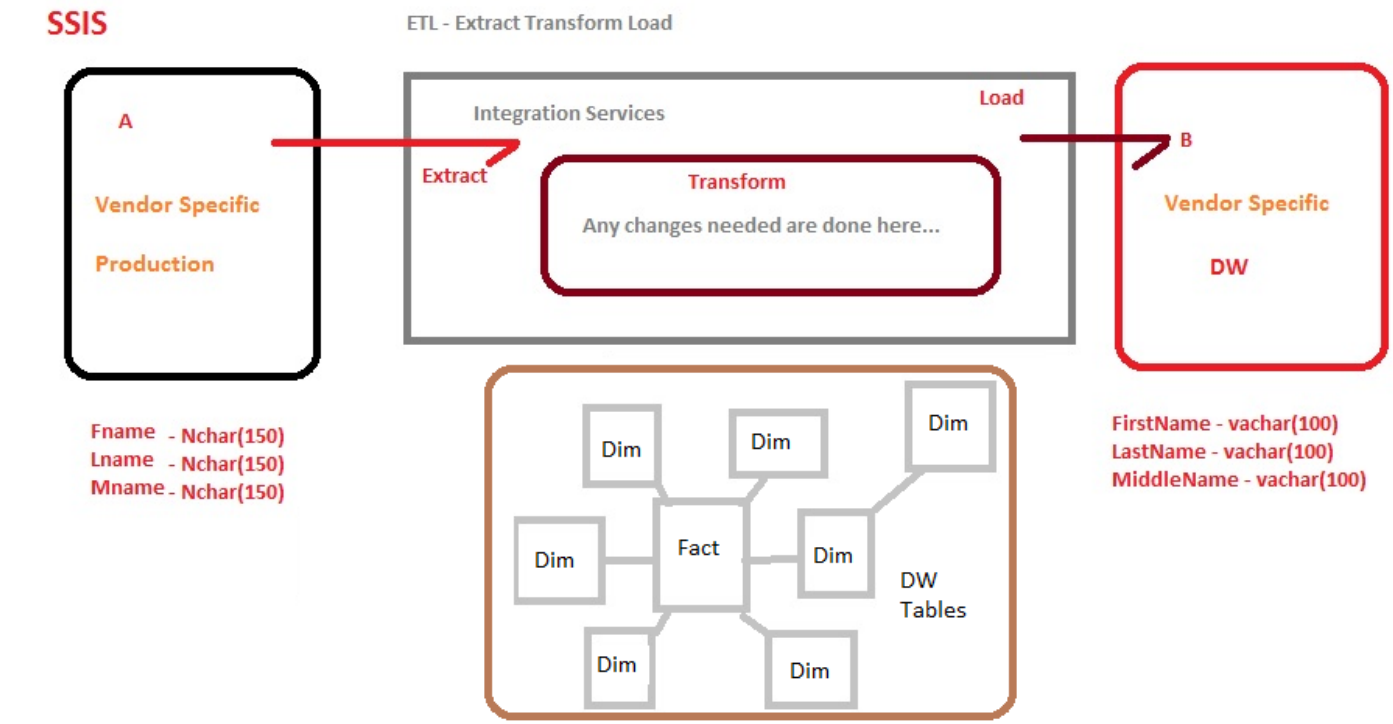


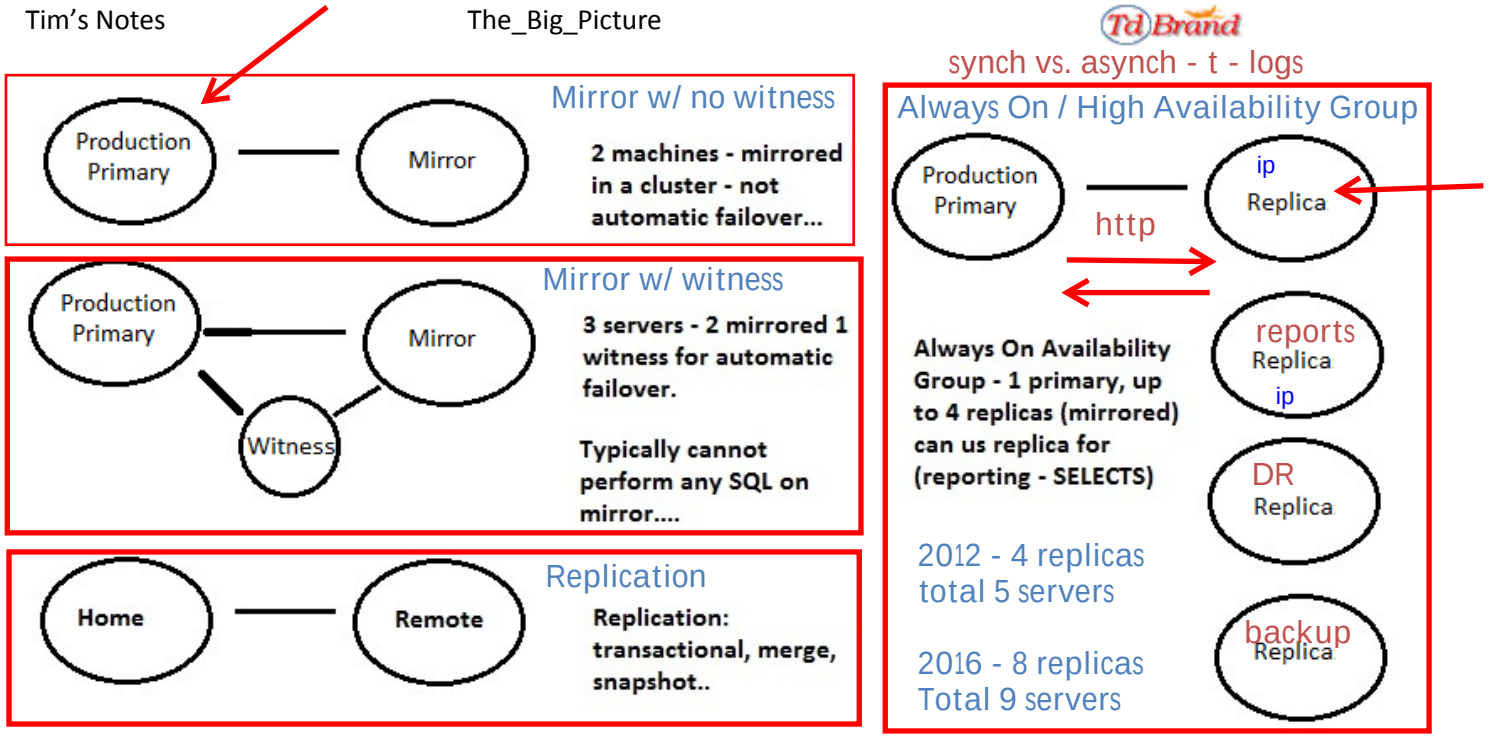




The Container Discussion: What happens to a security principles permissions with GRANT, REVOKE or DENY


http - GET - POST
querystring -
name : value
Column : field/row
client - browser - mobile device
KPI's
ssrs
dashboard
reports
excel
Refresh rate is?
SSAS Cube
web server
FH
ASP/PHP
B
Facility
D
Remote Office
Home Office
MyView
DataWhs
SVR 2
SSIS
Job
SSIS
Job
OLAP
Production
SVR 1
(GeoTrac)
OLTP
A
C
E
Fact tables
Dimension Tables


SSIS
ETL - Extract Transform Load
A
Vendor Specific
Production
Integration Services
Extract
Transform
Any changes needed are done here...
Load
B
Vendor Specific
DW
Fname - Nchar(150)
Lname - Nchar(150)
Mname - Nchar(150)
FirstName - vachar(100)
LastName - vachar(100)
MiddleName - vachar(100)
Dim
Fact
DW
Tables



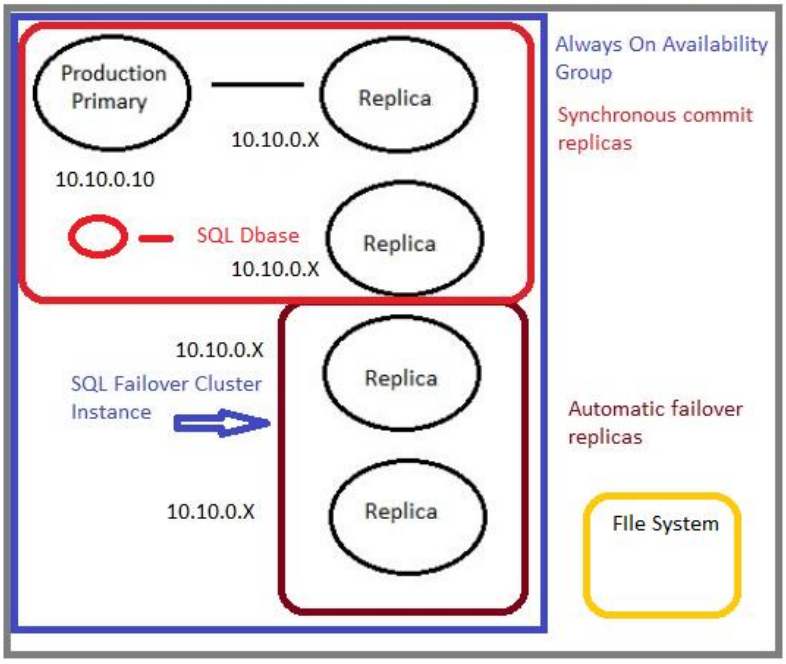
Mirroring vs. Replication vs. Window Clustering Services

Know your SQL relationships: http://stackoverflow.com/questions/8094156/know-relationships-between-all-the-tables-of-database-in-sql-server

```
SELECT
    fk.name 'FK Name',
    tp.name 'Parent table',
    cp.name, cp.column_id,
    tr.name 'Refrenced table',
    cr.name, cr.column_id
FROM
    sys.foreign_keys fk
INNER JOIN
    sys.tables tp ON fk.parent_object_id = tp.object_id
INNER JOIN
    sys.tables tr ON fk.referenced_object_id = tr.object_id
INNER JOIN
    sys.foreign_key_columns fkc ON fkc.constraint_object_id = fk.object_id
INNER JOIN
    sys.columns cp ON fkc.parent_column_id = cp.column_id AND fkc.parent_object_id =
cp.object_id
INNER JOIN
    sys.columns cr ON fkc.referenced_column_id = cr.column_id AND
fkc.referenced_object_id = cr.object_id
ORDER BY
    tp.name, cp.column_id
```

Event Listener - single IP to all servers 192.168.21.45

Windows server failover cluster Setup - then create cluster with all nodes



Always On Availability Group - 1 primary, up to 4 replicas (mirrored) can us replica for (reporting - SELECTS)

Data synchronization

Moving data from Primary SQL database to all replicas that support the cluster....

Filestream/Filetable

Access unstructured data in the file system

Events:
Server level
Database
Users
Application
Custom

Trigger that fires based on an event....