1. Create database sample *point to at the left panel, refresh, make sure click the data name up top*
2. Alter database sample modify name = sample1
3. Drop database sample1
4. Create table tblEmployee (

EmpID int not null Primary key,

Fname nvarchar (50) not null,

Lname nvarchar (50) not null,

GenderID int null)

1. Alter table tblStudent rename to tblGraduate
2. Alter table tblGraduate

Add Email nvarchar(100)

Drop column email

1. Select \* from tblGender --*to show foreign key constraint*
2. Select \* from tblPerson – *alter the genderID on edit 200 rows on left panel*
3. Alter table tblPerson add constraint FK-tblPerson-GenderID

Foreign key (GenderID) references tblGender(ID)

1. Insert into tblPerson (ID, Fname, Lname, Email, GenderID) values

(4,'Serge','Mavuba','dev.Mavuba@gmail.com',1)

Insert into tblPerson (ID, Fname, Lname, Email, GenderID) values

(5,'Shafan','Sugarman','SSugarman@perscholas.org',1),

(6,'Roberto','Santos','Rsantos@perscholas.org',1)

Delete from tblPerson where ID >3

Alter table tblPerson add constraint df-tblPerson-GenderID --*default constraint*

Default 3 for genderID

Select \* from tblLearner

insert into tblLearner (ID,Fname,Lname,Email,AgeRange,States,JobTitle,Salary,Industry,Hobby,GenderID) values(16,'Nosa','Okundaye ','Okundaye.preciousnosa@gmail.com','30-40','MD','Network Administrator',100000,'Telecommunication','Gaming',1);

1. Select \* from tblPerson

Select Fname, Lname, Salary from tblPerson

Delete from tblPerson where ID = 4

Update tblLearner

Set ageRange = ’20-30’

Where ID = 1

Select distinct states from tblLearner

Order by states desc

Select distinct gender, states from tblLearner

Select \* from tblLearner –*different operators*

Where states = ‘MD’ !=,<>

Where salary > 100000, salary between 100000 and 200000, in (1000,100000,200000)

Where (states = ‘MD’ or states =’DC’) and salary > 100000

Select \* from tblLearner *--Wildcard*

Where states like ‘L%’

Where email like ‘%@%’

Select sum(salary) as ttlSal from tblLearner *–Min/Max*

Select ageRange, sum(salary), count(ageRange) as cnt from tblLearner

Group by ageRange

Select jobTitle, sum(salary) as ttlSal from tblLearner *–Group by*

Where states = ‘Cloud Engineer’

Group by jobTitle

Select jobTitle, sum(salary) as ttlSal from tblLearner--having

Group by jobTitle

Having jobTitle = ‘Cloud Engineer’

*Best practice, try to eliminate rows that you would not need as early as possible*

1. Seletct \* from tblLearner *--joins*

Select \* from tblDept

Select Fname, Lname, Salary, deptname from tblLearner

Inner join tblDept

On tblLearner.DeptID = tblDept.ID

Select Fname, Lname, Salary, deptname from tblLearner

left join tblDept

On tblLearner.DeptID = tblDept.ID

*Right joins are rarely use,*

Create Procedure spHardWorks

As

**Begin**

**Begin try**

**Begin transaction**

**Update** tblLearner  **set** Salary  = ‘1000000’

**Where**  ID = 1

**Update** tblLearner **set** Salary = ‘1M’

**Where** Lname like ‘[H%]’

**Update** tblLearner **set** Salary = ‘1M’

**Where** Fname like ‘[S%]’ and GenderID = 1

**Commit Transaction**

**End Try**

**Begin Catch**

**Rollback Transaction**

**Print ‘Transaction Rolled Back’**

**End Catch**

**End**

--*DROP PROCEDURE dbo.uspMyProc;*