**Step-4**

1. Screen -snapshot showing the addition of the constraint.

A screenshot of a cell phone

Description generated with high confidence

2) SQL statement needed for method 2

ALTER TABLE Employee ADD CONSTRAINT CK\_Job60 CHECK(JobType IN ('A','B','C','E','M','U') OR JobType is NULL);

3)Attempts to show how the constraint works, What is the likely purpose of “?”A screenshot of a social media post

Description generated with very high confidence

Msg 547, Level 16, State 0, Line 2

The INSERT statement conflicted with the CHECK constraint "CK\_Job60". The conflict occurred in database "PI60", table "dbo.Employee", column 'JobType'.

The statement has been terminated.

What is the likely purpose of “?”

The purpose of “?” is , if no value given to JobType by user, By default it will take ‘NULL’.

4)violate “Primary key” on employee table.

A screenshot of a social media post

Description generated with very high confidence

5)Make a specific, technical statement on how constraints work under SQL.

A CHECK constraint specifies a Boolean (evaluates to TRUE, FALSE, or unknown) search condition that is applied to all values that are entered for the column. All values that evaluate to FALSE are rejected

Reference : <https://technet.microsoft.com/en-us/library/ms189862(v=sql.105).aspx>

So, Whenever you try to change the contents of the table, transactions are committed only when predicate and check constraint evaluate TRUE.

6) SQL statement showing data entry for the marriage data.

ALTER the table to add two columns and one foreign key constraint.

use PI60;

ALTER TABLE Employee ADD MarriedTo int,MarriageDate DateDom60,

FOREIGN KEY (MarriedTo) REFERENCES Employee(Emp#);

Updating the columns to add marriage data.

UPDATE Employee

SET MarriedTo = (SELECT Emp# FROM Employee WHERE Name = 'Mary Manager'), MarriageDate = '2014-08-01'

WHERE Name = 'Matt Lite';

UPDATE Employee

SET MarriedTo = (SELECT Emp# FROM Employee WHERE Name = 'Matt Lite'), MarriageDate = '2014-08-01'

WHERE Name = 'Mary Manager';