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\*\* CHAPTER 7. Practical 1. \*\*

\*\* VIEWs. \*\*

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Use database0

sp\_help company

--p1) CREATE a VIEW named London.

-- It is going to show rows and columns from the 'company' table.

-- It should show company number, name and county columns.

-- It should only include rows in the London area (County = 'London').

-- When used for data entry it should NOT ALLOW non-London companies to be added.

-- Be a developer and CREATE the view.

CREATE VIEW London

AS

SELECT c.company\_no, c.name, c.county

FROM company c

WHERE c.county='London'

WITH CHECK OPTION

--p2) Now be the 'user' and SELECT everything (all rows and all columns)

-- FROM the newly created VIEW.

-- (3 rows, with 3 columns each)

SELECT \* FROM London

company\_no name county

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1000 Happy Heaters PLC London

2000 Icicle Igloos PLC London

3000 Judo Jeans PLC London

-- p3) Copy/paste the code from 1) and

-- Alter the VIEW to add the 'post\_code' column to the VIEW so that it appears

-- before 'county'.

ALTER VIEW London AS

SELECT c.company\_no, c.name, c.post\_code, c.county

FROM company c

WHERE c.county='London'

--p4) Now SELECT from the VIEW again as you did in 2) above, but this time

-- only include 'name' and 'post\_code' columns.

-- Include a 'WHERE' clause that only SELECTs rows from the VIEW if

-- the post\_code starts with an 'N'.

-- Order the rows by 'post\_code'.

SELECT name, post\_code

FROM London

WHERE post\_code like 'N%'

ORDER BY post\_code

name post\_code

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Icicle Igloos PLC N1 4LH

Judo Jeans PLC N9 2FG

--p5) Try to run this INSERT statement of a company based in 'Essex'. It shouldn’t be allowed!

-- If it is successful, you have forgotten 3 key words from your CREATE/ALTER syntax.

INSERT INTO london

VALUES (5000, 'ABC CO','RF45 7GH', 'ESSEX')

"The attempted INSERT or UPDATE failed because the target VIEW either specifies

WITH CHECK OPTION or spans a VIEW that specifies WITH CHECK OPTION and one or more

rows resulting from the operation did not qualify under the CHECK OPTION constraint.

The statement has been terminated. (SQL Server Message)"

-- The INSERT fails because the data violates the With Check Option condition.

-- If your INSERT did run successfully use this DELETE statement to remove the row.

DELETE FROM company WHERE company\_no = 5000

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\*\* END OF CHAPTER 7. VIEWs \*\*

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