



Exercise Three

3.1 Create a table called Car_Manufacturers, create the following columns ...

CM_MANU_CODE	NUMBER(8)	NOT NULL
CM_MANU_NAME	VARCHAR2(40)	NOT NULL
CM_MANU_ADDR	VARCHAR2(120)	NOT NULL
CM_MANU_TEL	VARCHAR2(20)	
CM_COMMENTS	VARCHAR2(4000)	

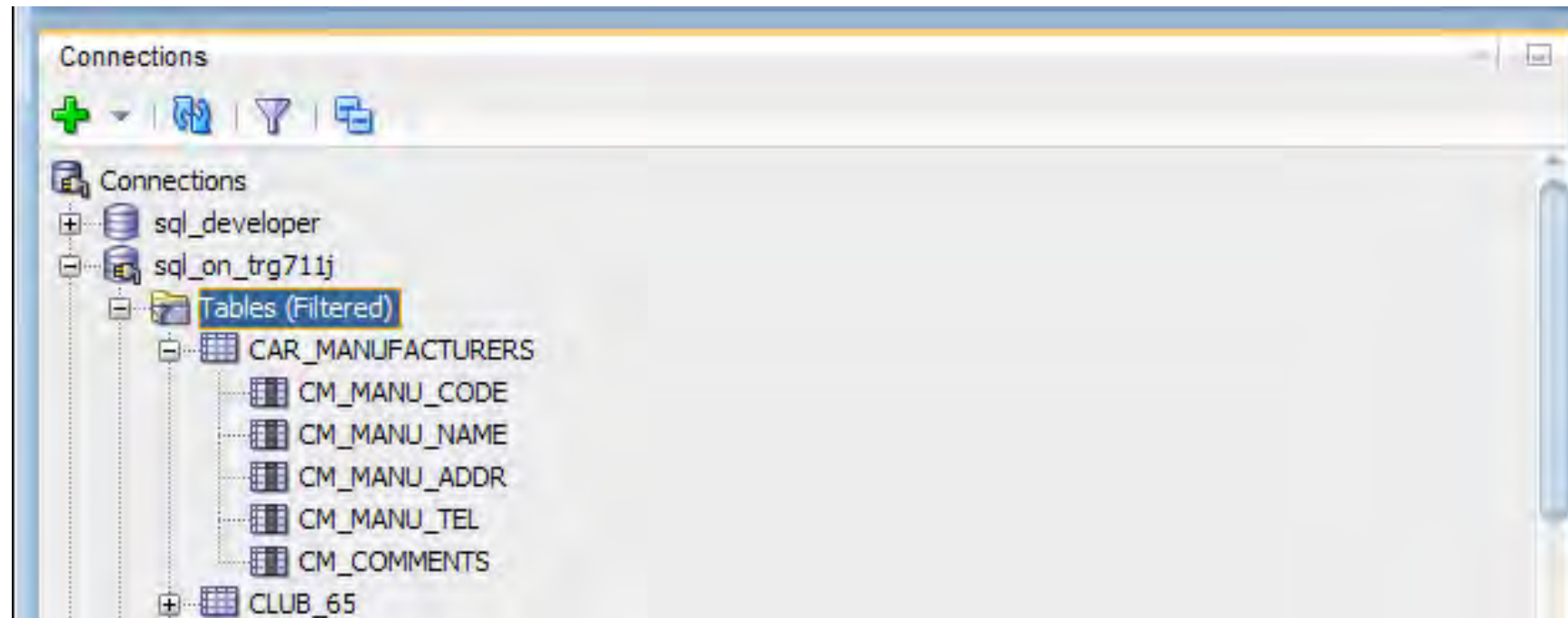
Create a Primary Key on CM_MANU_CODE

Create a Unique Key on CM_MANU_NAME

Exercise Three



3.2 Check the structure in the Connections Navigator ...





Exercise Three

3.3 Amend the Car_Manufacturers table by adding the following column ...

CM_MANU_WEB VARCHAR2(60) NOT NULL

Check it in the Object Data Details dialog ...



Exercise Three



3.4 Import data into the Car_Manufacturers table from c:\course\extwo3_4.xls.

Check that the data was imported correctly ...

The screenshot shows a SQL Developer window with the 'CAR_MANUFACTURERS' table selected. The table contains 27 rows of data, including columns for manufacturer code, name, address, telephone, comments, and website. The data is as follows:

CM_MANU_CODE	CM_MANU_NAME	CM_MANU_ADDR	CM_MANU_TEL	CM_COMMENTS	CM_MANU_WEB
1	Alfa Romeo	UK FREEPOST NAT13690 Twickenham TW1 1BR	0800 2532 0000	(null)	www.alfaromeo.co.uk
2	Aston Martin	Banbury Road, Gaydon, Warwick. CV35 ODB	01926 644644	(null)	www.astonmartin.com
3	Audi	Yeomans Drive, Blakelands, Milton Keynes, MK14 5AN	0800 699888	(null)	www.audi.co.uk
4	Bentley	Pyms Lane Crewe Cheshire CW1 3PL	01270 255 155	(null)	www.bentleymotors.com
5	BMW	Ellesfield Avenue, Bracknell, RG12 8TA	0870 5050 160	(null)	www.bmw.co.uk
6	Bugatti	1, Château Saint Jean Dorlisheim 67120 Molsheim France	0	(null)	www.bugatti.com
7	Citroën	221 Bath Road SLOUGH SL14BA	01 753 843 296	(null)	www.citroen.co.uk
8	Ferrari	Thorpe Ind Estate, Egham, Surrey TW20 8RJ	0	(null)	www.ferrari.co.uk
9	Fiat	Fiat House, 240 Bath Road, Slough, Berkshire SL1 4DX	0800 3428 0000	(null)	www.fiat.co.uk
10	Ford Motor Company	PO Box 4430 COVENTRY CV3 9BH	08457 111 888	(null)	www.ford.co.uk
11	Honda	479 London Road Slough SL3 8QY	0845 200 8000	(null)	www.honda.co.uk
12	Jaguar Cars	Abbey Road, Whitley, Coventry, CV3 4LF	0	(null)	www.jaguar.co.uk
13	Lexus	Great Burgh, Burgh Heath. Epsom, Surrey. KT18 5XS	0	(null)	www.lexus.co.uk
14	Lotus Cars	Potash Lane Hethel Norwich Norfolk. NR14 8EZ	01953 608000	(null)	www.grouplotus.com
15	Mercedes-Benz	Burystead Court Caldecotte Lake Drive Caldecotte Milton Keynes MK7 8ND	0870 840 5000	(null)	www.mercedes-benz.co.
16	Peugeot	Aldermoor House, PO Box 227, Aldermoor Lane, Coventry, CV3 1LT	0845 200 1234	(null)	www.peugeot.co.uk
17	Porsche	Bath Road, Calcot Reading, Berkshire, RG3 7SE	0	(null)	www.porsche.co.uk
18	Renault	The Rivers Office Park Denham Way Maple Cross Rickmansworth WD3 9YS	08000 72 33 72	(null)	www.renault.co.uk
19	Rolls-Royce Motors	65 Buckingham Gate London SW1E 6AT	020 7222 9020	(null)	www.rolls-royce.com
20	Saab	Griffin House Osborne Road Luton LU1 3YT	0870 160 9395	(null)	www.saab.co.uk
21	SEAT	Yeomans Drive Blakelands Milton Keynes MK14 5AN	0	(null)	www.seat.co.uk
22	Subaru	Subaru (UK) Ltd, IM House, South Drive, Coleshill, Birmingham. B46 1DF	08708 502 503	(null)	www.subaru.co.uk
23	TVR	Remo House 6th Floor 310-312 Regent Street London W1B 3BS	0845 0031377	(null)	www.tvr.co.uk
24	Toyota	PO Box 814 Portsmouth PO6 9AY	0845 275 5555	(null)	www.toyota.co.uk
25	Vauxhall	Griffin House Osborne Road Luton LU1 3YT	01582 721122	(null)	www.vauxhall.co.uk
26	Volkswagen	Yeomans Drive Blakelands Milton Keynes MK14 5AN	0	(null)	www.volkswagon.co.uk
27	Morgan	PICKLERSLEIGH ROAD , MALVERN , WORCS , WR14 2LL	01684 573104	(null)	www.morgan-motor.co.u

Exercise Three



3.5 Change the values in the following columns to uppercase ... CM_MANU_NAME and CM_MANU_ADDR

CM_MANU_CODE	CM_MANU_NAME	CM_MANU_ADDR	CM_MANU_TEL	CM_COMMENTS	CM_MANU_WEB
1	1 ALFA ROMEO	UK FREEPOST NAT13690 TWICKENHAM TW1 1BR	0800 2532 0000	(null)	www.alfaromeo.co.uk
2	2 ASTON MARTIN	BANBURY ROAD, GAYDON, WARWICK. CV35 ODB	01926 644644	(null)	www.astonmartin.com
3	3 AUDI	YEOMANS DRIVE, BLAKELANDS, MILTON KEYNES, MK14 5AN	0800 699888	(null)	www.audi.co.uk
4	4 BENTLEY	PYMS LANE CREWE CHESHIRE CW1 3PL	01270 255 155	(null)	www.bentleymotors.com
5	5 BMW	ELLESFIELD AVENUE, BRACKNELL, RG12 8TA	0870 5050 160	(null)	www.bmw.co.uk
6	6 BUGATTI	1, CHÂTEAU SAINT JEAN DORLISHEIM 67120 MOLSHEIM FRANCE	0	(null)	www.bugatti.com
7	7 CITROËN	221 BATH ROAD SLOUGH SL14BA	01 753 843 296	(null)	www.citroen.co.uk
8	8 FERRARI	THORPE IND ESTATE, EGHAM, SURREY TW20 8RJ	0	(null)	www.ferrari.co.uk
9	9 FIAT	FIAT HOUSE, 240 BATH ROAD, SLOUGH, BERKSHIRE SL1 4DX	0800 3428 0000	(null)	www.fiat.co.uk
10	10 FORD MOTOR COMPANY	PO BOX 4430 COVENTRY CV3 9BH	08457 111 888	(null)	www.ford.co.uk
11	11 HONDA	479 LONDON ROAD SLOUGH SL3 8QY	0845 200 8000	(null)	www.honda.co.uk
12	12 JAGUAR CARS	ABBAY ROAD, WHITLEY, COVENTRY, CV3 4LF	0	(null)	www.jaguar.co.uk
13	13 LEXUS	GREAT BURGH, BURGH HEATH. EPSOM, SURREY. KT18 5XS	0	(null)	www.lexus.co.uk
14	14 LOTUS CARS	POTASH LANE HETHEL NORWICH NORFOLK. NR14 8EZ	01953 608000	(null)	www.grouplotus.com
15	15 MERCEDES-BENZ	BURYSTEAD COURT CALDECOTTE LAKE DRIVE CALDECOTTE MILTON KEYNES MK7 8ND	0870 840 5000	(null)	www.mercedes-benz.co.
16	16 PEUGEOT	ALDERMOOR HOUSE, PO BOX 227, ALDERMOOR LANE, COVENTRY, CV3 1LT	0845 200 1234	(null)	www.peugeot.co.uk
17	17 PORSCHE	BATH ROAD, CALCOT READING, BERKSHIRE, RG3 7SE	0	(null)	www.porsche.co.uk
18	18 RENAULT	THE RIVERS OFFICE PARK DENHAM WAY MAPLE CROSS RICKMANSWORTH WD3 9YS	08000 72 33 72	(null)	www.renault.co.uk
19	19 ROLLS-ROYCE MOTORS	65 BUCKINGHAM GATE LONDON SW1E 6AT	020 7222 9020	(null)	www.rolls-royce.com
20	20 SAAB	GRIFFIN HOUSE OSBORNE ROAD LUTON LU1 3YT	0870 160 9395	(null)	www.saab.co.uk
21	21 SEAT	YEOMANS DRIVE BLAKELANDS MILTON KEYNES MK14 5AN	0	(null)	www.seat.co.uk
22	22 SUBARU	SUBARU (UK) LTD, IM HOUSE, SOUTH DRIVE, COLESHILL, BIRMINGHAM. B46 1DF	08708 502 503	(null)	www.subaru.co.uk
23	23 TVR	REMO HOUSE 6TH FLOOR 310-312 REGENT STREET LONDON W1B 3BS	0845 0031377	(null)	www.tvr.co.uk
24	24 TOYOTA	PO BOX 814 PORTSMOUTH PO6 9AY	0845 275 5555	(null)	www.toyota.co.uk
25	25 VAUXHALL	GRIFFIN HOUSE OSBORNE ROAD LUTON LU1 3YT	01582 721122	(null)	www.vauxhall.co.uk
26	26 VOLKSWAGEN	YEOMANS DRIVE BLAKELANDS MILTON KEYNES MK14 5AN	0	(null)	www.volkswagon.co.uk
27	27 MORGAN	PICKLERSLEIGH ROAD , MALVERN , WORCS , WR14 2LL	01684 573104	(null)	www.morgan-motor.co.u



Exercise Three

3.6 Amend the Car_Manufacturers table to include the following columns ...

CM_CREATED_BY	VARCHAR2(30)
CM_CREATED_DATE	DATE
CM_UPDATED_BY	VARCHAR2(30)
CM_UPDATED_DATE	DATE

Populate the CM_CREATED_BY with your schema name, and CM_CREATED_DATE with today's date. Hint: Use Sysdate and User.

Make the CM_CREATED_BY and CM_CREATED_DATE columns mandatory.

Exercise Three



3.6 continued ...

The screenshot shows the SQL Developer interface with the 'CAR_MANUFACTURERS' table selected. The 'Columns' tab is active, displaying the table's structure. The table has 10 columns with the following details:

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	CM_MANU_CODE	NUMBER(8,0)	No	(null)	1	(null)
2	CM_MANU_NAME	VARCHAR2(40 BYTE)	No	(null)	2	(null)
3	CM_MANU_ADDR	VARCHAR2(120 BYTE)	No	(null)	3	(null)
4	CM_MANU_TEL	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)
5	CM_COMMENTS	VARCHAR2(4000 BYTE)	Yes	(null)	5	(null)
6	CM_MANU_WEB	VARCHAR2(60 BYTE)	Yes	(null)	6	(null)
7	CM_CREATED_BY	VARCHAR2(30 BYTE)	No	(null)	7	(null)
8	CM_CREATED_DATE	DATE	No	(null)	8	(null)
9	CM_UPDATED_BY	VARCHAR2(30 BYTE)	Yes	(null)	9	(null)
10	CM_UPDATED_DATE	DATE	Yes	(null)	10	(null)



Exercise Three

3.7 Create a table called Car_Models, create the following columns ...

CAR_MODEL_CODE	NUMBER(8)	NOT NULL
CAR_MANU_CODE	NUMBER(8)	NOT NULL
CAR_MODEL	VARCHAR2(30)	NOT NULL
CAR_CREATED_BY	VARCHAR2(30)	NOT NULL
CAR_CREATED_DATE	DATE	NOT NULL
CAR_UPDATED_BY	VARCHAR2(30)	
CAR_UPDATED_DATE	DATE	

Make the cm_model_code the Primary Key

Create a foreign key between the car_manu_code and the cm_manu_code in the Car_Manufacturers table.

Check the result in the Object Data Dialog ...