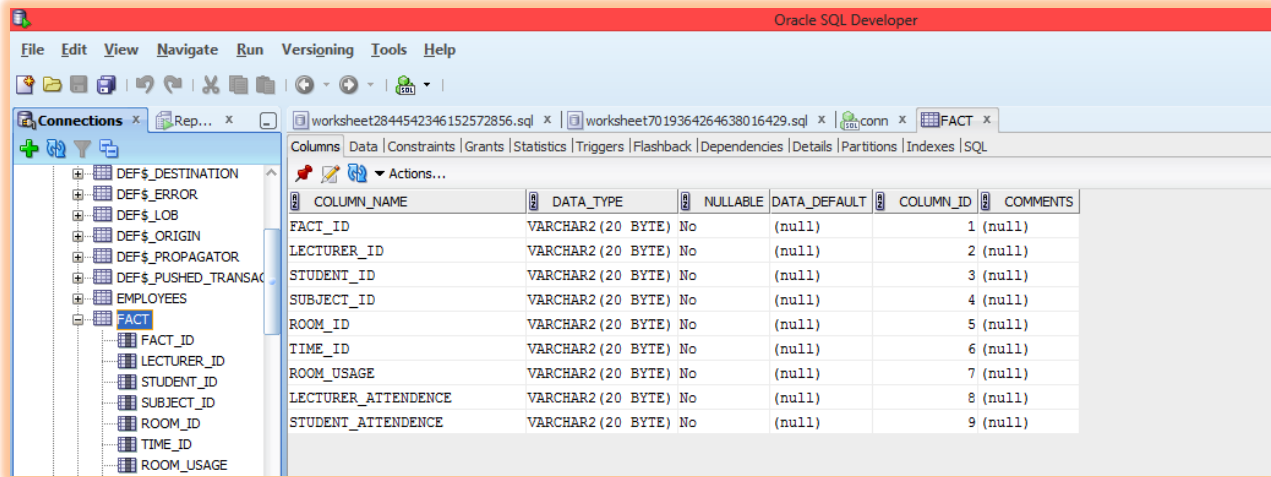


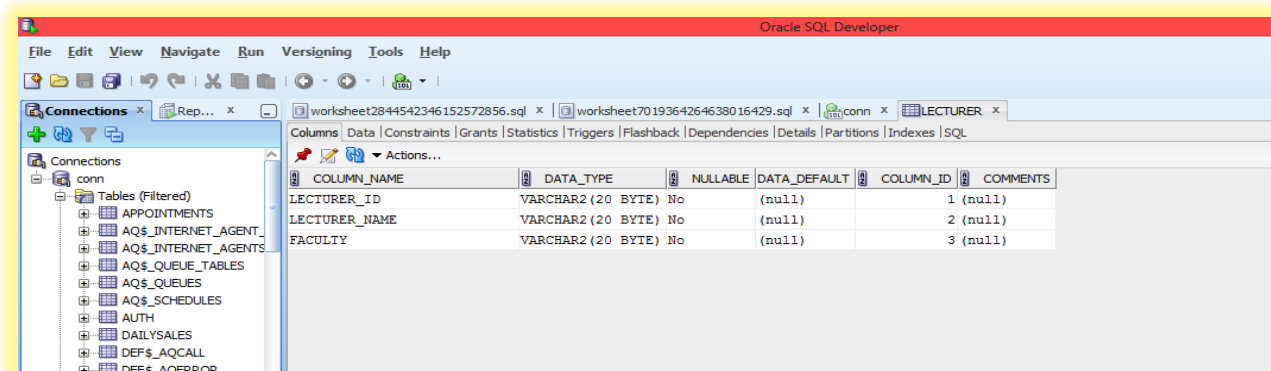
The Following figure contains the column view of the FACT table:



The screenshot shows the Oracle SQL Developer interface with the 'FACT' table selected in the 'Columns' tab. The table structure is displayed in a grid with columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS.

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
FACT_ID	VARCHAR2 (20 BYTE)	No	(null)	1 (null)	
LECTURER_ID	VARCHAR2 (20 BYTE)	No	(null)	2 (null)	
STUDENT_ID	VARCHAR2 (20 BYTE)	No	(null)	3 (null)	
SUBJECT_ID	VARCHAR2 (20 BYTE)	No	(null)	4 (null)	
ROOM_ID	VARCHAR2 (20 BYTE)	No	(null)	5 (null)	
TIME_ID	VARCHAR2 (20 BYTE)	No	(null)	6 (null)	
ROOM_USAGE	VARCHAR2 (20 BYTE)	No	(null)	7 (null)	
LECTURER_ATTENDENCE	VARCHAR2 (20 BYTE)	No	(null)	8 (null)	
STUDENT_ATTENDENCE	VARCHAR2 (20 BYTE)	No	(null)	9 (null)	

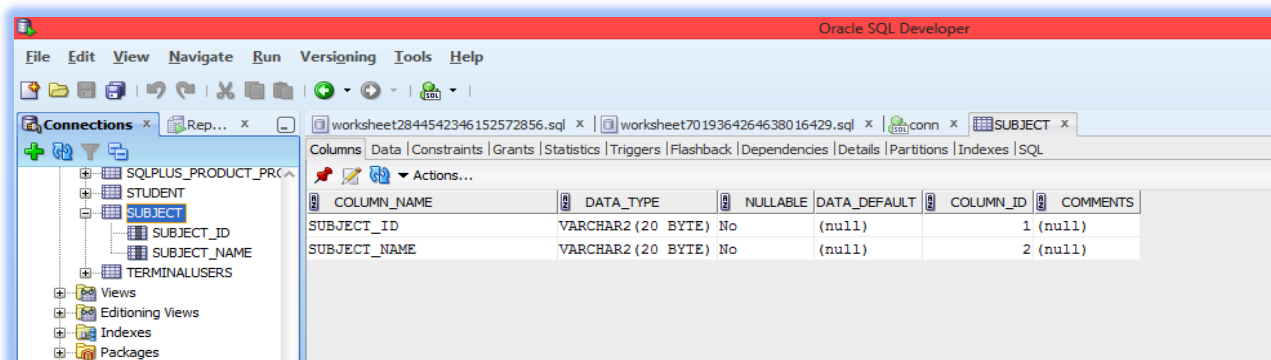
Lecturer Table:



The screenshot shows the Oracle SQL Developer interface with the 'LECTURER' table selected in the 'Columns' tab. The table structure is displayed in a grid with columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS.

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
LECTURER_ID	VARCHAR2 (20 BYTE)	No	(null)	1 (null)	
LECTURER_NAME	VARCHAR2 (20 BYTE)	No	(null)	2 (null)	
FACULTY	VARCHAR2 (20 BYTE)	No	(null)	3 (null)	

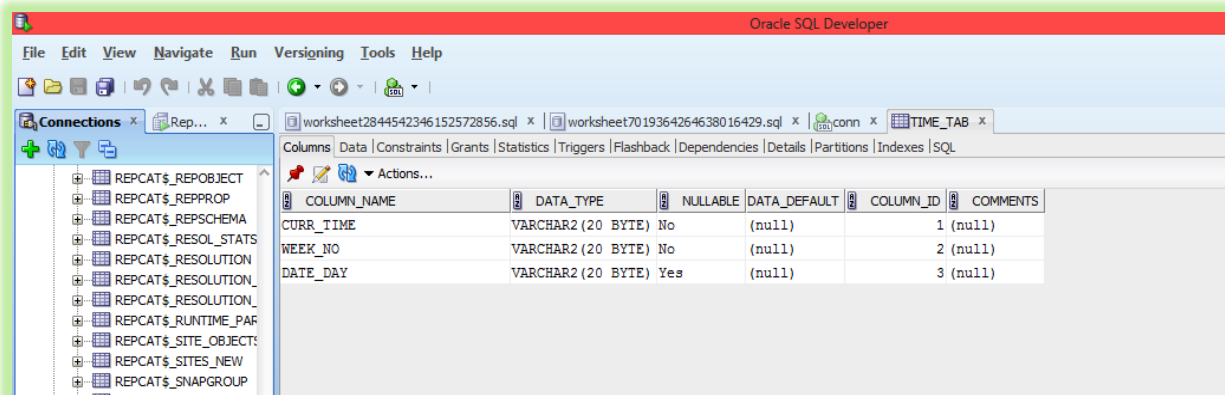
The Subject Table



The screenshot shows the Oracle SQL Developer interface with the 'SUBJECT' table selected in the 'Columns' tab. The table structure is displayed in a grid with columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS.

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
SUBJECT_ID	VARCHAR2 (20 BYTE)	No	(null)	1 (null)	
SUBJECT_NAME	VARCHAR2 (20 BYTE)	No	(null)	2 (null)	

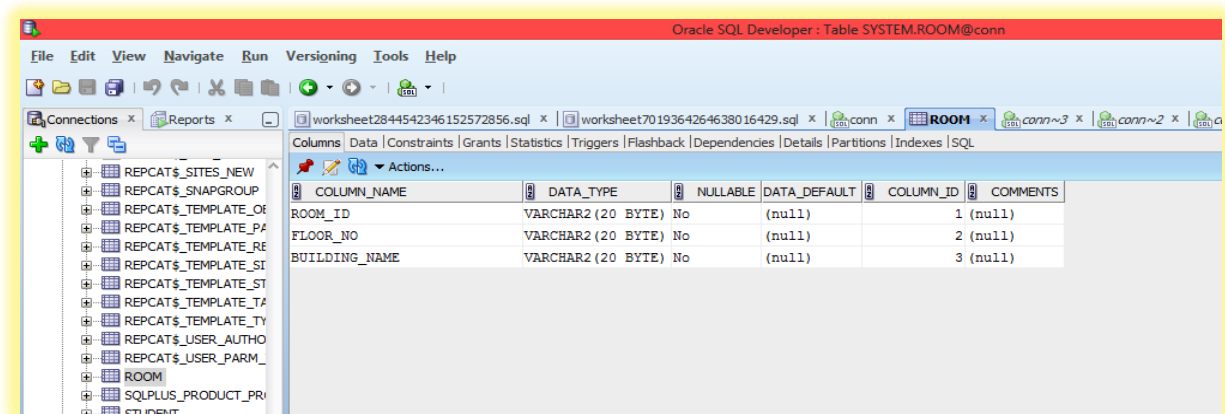
The Time Tab Table:



The screenshot shows the Oracle SQL Developer interface. The left pane displays a tree view of database objects, including REPCAT\$_REPOBJECT, REPCAT\$_REPPROP, REPCAT\$_REPSHEMA, REPCAT\$_RESOL_STATS, REPCAT\$_RESOLUTION, REPCAT\$_RESOLUTION_, REPCAT\$_RUNTIME_PAF, REPCAT\$_SITE_OBJECTS, REPCAT\$_SITES_NEW, and REPCAT\$_SNAPGROUP. The right pane shows the 'Columns' tab for the TIME_TAB table, displaying a table with columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS.

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
CURR_TIME	VARCHAR2 (20 BYTE)	No	(null)	1 (null)	
WEEK_NO	VARCHAR2 (20 BYTE)	No	(null)	2 (null)	
DATE_DAY	VARCHAR2 (20 BYTE)	Yes	(null)	3 (null)	

Room table:

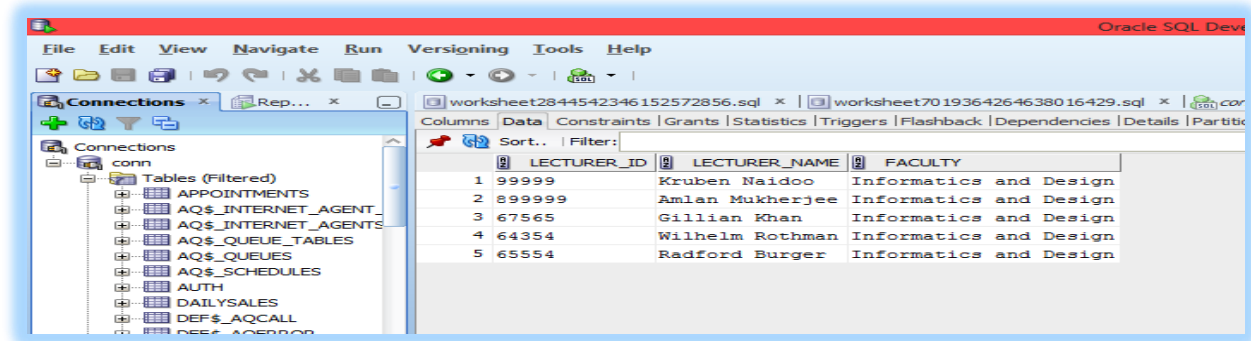


The screenshot shows the Oracle SQL Developer interface. The left pane displays a tree view of database objects, including REPCAT\$_SITES_NEW, REPCAT\$_SNAPGROUP, REPCAT\$_TEMPLATE_OB, REPCAT\$_TEMPLATE_PA, REPCAT\$_TEMPLATE_RE, REPCAT\$_TEMPLATE_SI, REPCAT\$_TEMPLATE_TA, REPCAT\$_TEMPLATE_TY, REPCAT\$_USER_AUTHO, REPCAT\$_USER_PARM, ROOM, SQLPLUS_PRODUCT_PR, and STI IDENT. The right pane shows the 'Columns' tab for the ROOM table, displaying a table with columns: COLUMN_NAME, DATA_TYPE, NULLABLE, DATA_DEFAULT, COLUMN_ID, and COMMENTS.

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
ROOM_ID	VARCHAR2 (20 BYTE)	No	(null)	1 (null)	
FLOOR_NO	VARCHAR2 (20 BYTE)	No	(null)	2 (null)	
BUILDING_NAME	VARCHAR2 (20 BYTE)	No	(null)	3 (null)	

TEST DATA

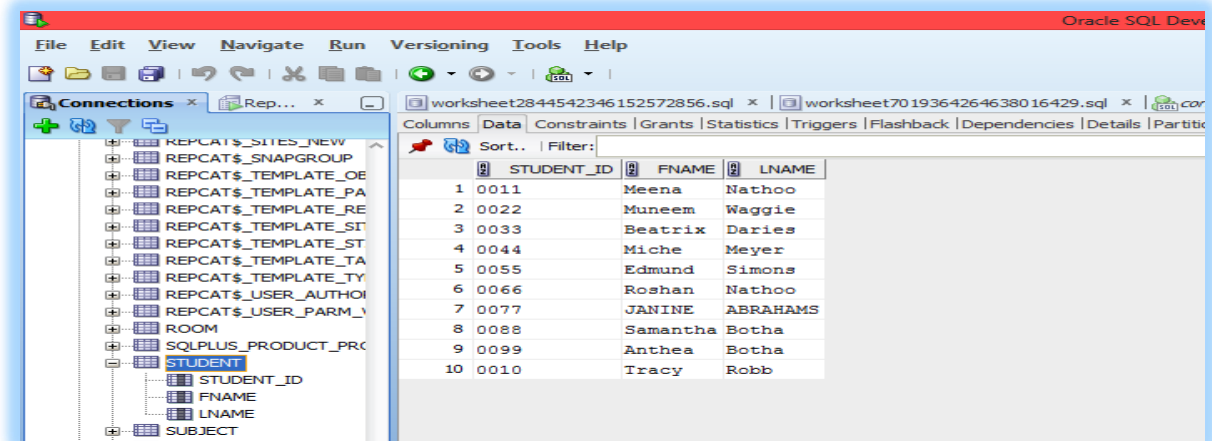
TESTING LECTURER TABLE:



The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists various database objects, including 'Tables (Filtered)' and 'AQ\$_*'. The main window displays the 'Data' tab for a table, showing a list of lecturers. The columns are LECTURER_ID, LECTURER_NAME, and FACULTY. The data is as follows:

	LECTURER_ID	LECTURER_NAME	FACULTY
1	99999	Kruben Naidoo	Informatics and Design
2	899999	Amlan Mukherjee	Informatics and Design
3	67565	Gillian Khan	Informatics and Design
4	64354	Wilhelm Rothman	Informatics and Design
5	65554	Radford Burger	Informatics and Design

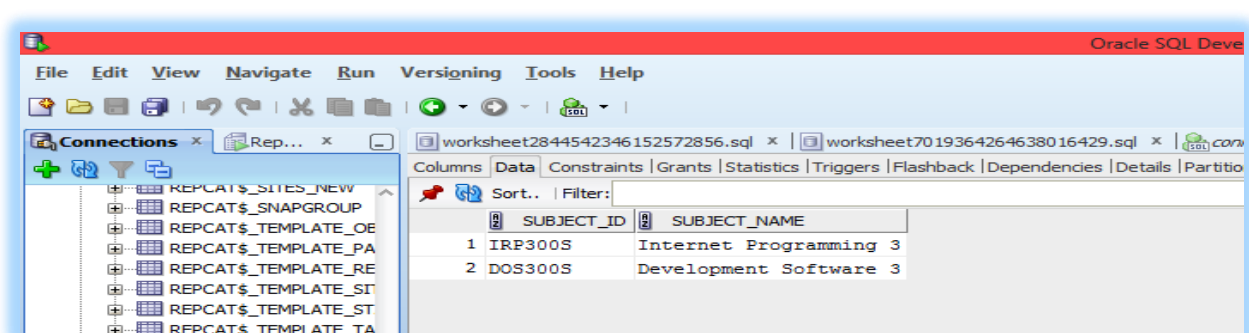
TESTING STUDENT TABLE:



The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists various database objects, including 'REPCAT\$_SITES_NEW', 'REPCAT\$_SNAPGROUP', 'REPCAT\$_TEMPLATE_OE', 'REPCAT\$_TEMPLATE_PA', 'REPCAT\$_TEMPLATE_RE', 'REPCAT\$_TEMPLATE_SI', 'REPCAT\$_TEMPLATE_ST', 'REPCAT\$_TEMPLATE_TA', 'REPCAT\$_TEMPLATE_TY', 'REPCAT\$_USER_AUTHOI', 'REPCAT\$_USER_PARM_Y', 'ROOM', 'SQLPLUS_PRODUCT_PRO', and 'STUDENT'. The main window displays the 'Data' tab for the 'STUDENT' table, showing a list of students. The columns are STUDENT_ID, FNAME, and LNAME. The data is as follows:

	STUDENT_ID	FNAME	LNAME
1	0011	Meena	Nathoo
2	0022	Muneem	Waggie
3	0033	Beatrix	Daries
4	0044	Miche	Meyer
5	0055	Edmund	Simons
6	0066	Roshan	Nathoo
7	0077	JANINE	ABRAHAMS
8	0088	Samantha	Botha
9	0099	Anthea	Botha
10	0010	Tracy	Robb

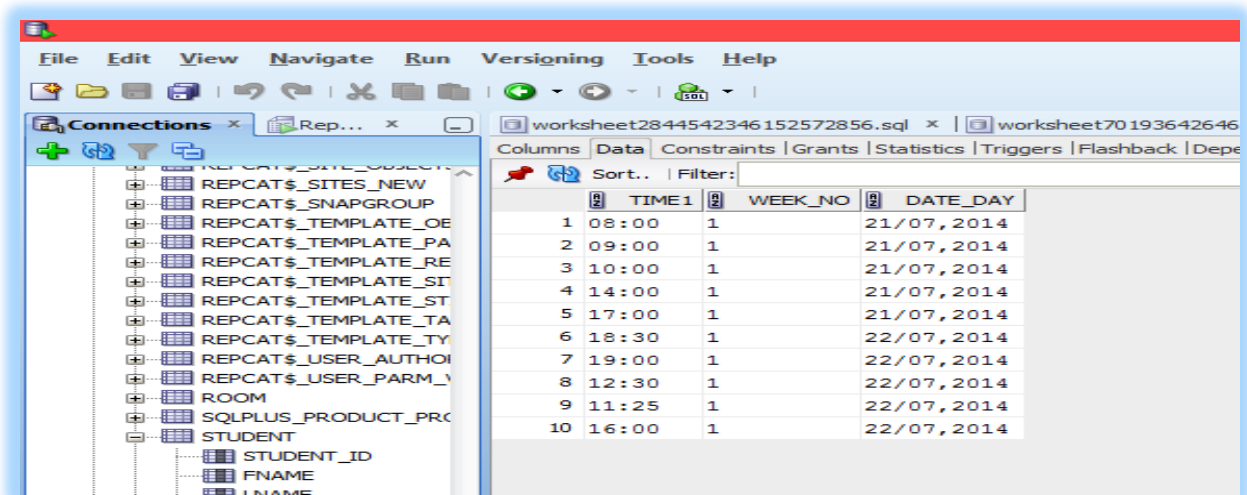
TESTING SUBJECT TABLE:



The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists various database objects, including 'REPCAT\$_SITES_NEW', 'REPCAT\$_SNAPGROUP', 'REPCAT\$_TEMPLATE_OE', 'REPCAT\$_TEMPLATE_PA', 'REPCAT\$_TEMPLATE_RE', 'REPCAT\$_TEMPLATE_SI', 'REPCAT\$_TEMPLATE_ST', and 'REPCAT\$_TEMPLATE_TA'. The main window displays the 'Data' tab for a table, showing a list of subjects. The columns are SUBJECT_ID and SUBJECT_NAME. The data is as follows:

	SUBJECT_ID	SUBJECT_NAME
1	IRP300S	Internet Programming 3
2	DOS300S	Development Software 3

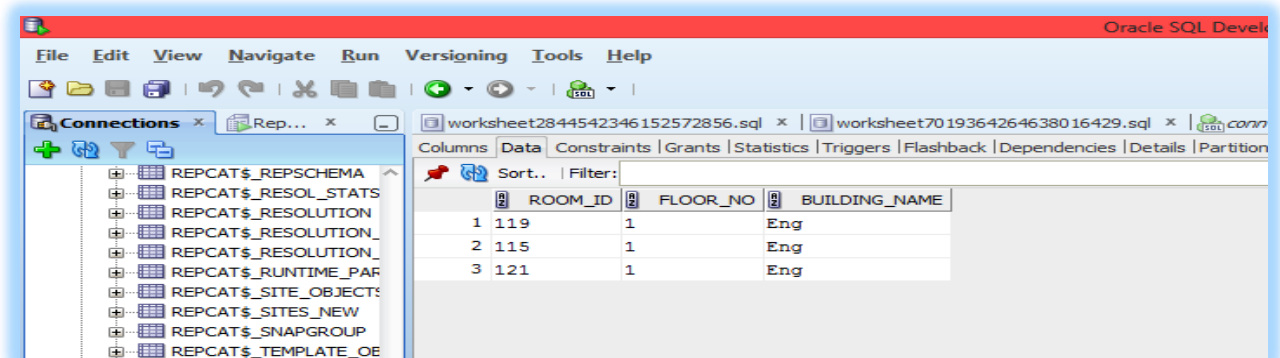
TESTING TIME TAB:



The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' pane displays a tree view of database objects, including REPCAT\$_SITES_NEW, REPCAT\$_SNAPGROUP, REPCAT\$_TEMPLATE_OE, REPCAT\$_TEMPLATE_PA, REPCAT\$_TEMPLATE_RE, REPCAT\$_TEMPLATE_SI, REPCAT\$_TEMPLATE_ST, REPCAT\$_TEMPLATE_TA, REPCAT\$_TEMPLATE_TY, REPCAT\$_USER_AUTHOI, REPCAT\$_USER_PARM_V, ROOM, SQLPLUS_PRODUCT_PRO, and STUDENT. The main pane shows the 'Data' tab for the REPCAT\$_TIME1 table. The table has four columns: TIME1, WEEK_NO, and DATE_DAY. The data is as follows:

	TIME1	WEEK_NO	DATE_DAY
1	08:00	1	21/07,2014
2	09:00	1	21/07,2014
3	10:00	1	21/07,2014
4	14:00	1	21/07,2014
5	17:00	1	21/07,2014
6	18:30	1	22/07,2014
7	19:00	1	22/07,2014
8	12:30	1	22/07,2014
9	11:25	1	22/07,2014
10	16:00	1	22/07,2014

TESTING ROOM TABLE:



The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' pane displays a tree view of database objects, including REPCAT\$_REPSHEMA, REPCAT\$_RESOL_STATS, REPCAT\$_RESOLUTION, REPCAT\$_RESOLUTION_, REPCAT\$_RUNTIME_PAR, REPCAT\$_SITE_OBJECTS, REPCAT\$_SITES_NEW, REPCAT\$_SNAPGROUP, and REPCAT\$_TEMPLATE_OE. The main pane shows the 'Data' tab for the REPCAT\$_ROOM table. The table has three columns: ROOM_ID, FLOOR_NO, and BUILDING_NAME. The data is as follows:

	ROOM_ID	FLOOR_NO	BUILDING_NAME
1	119	1	Eng
2	115	1	Eng
3	121	1	Eng

Testing FACT_VALUES TABLE:

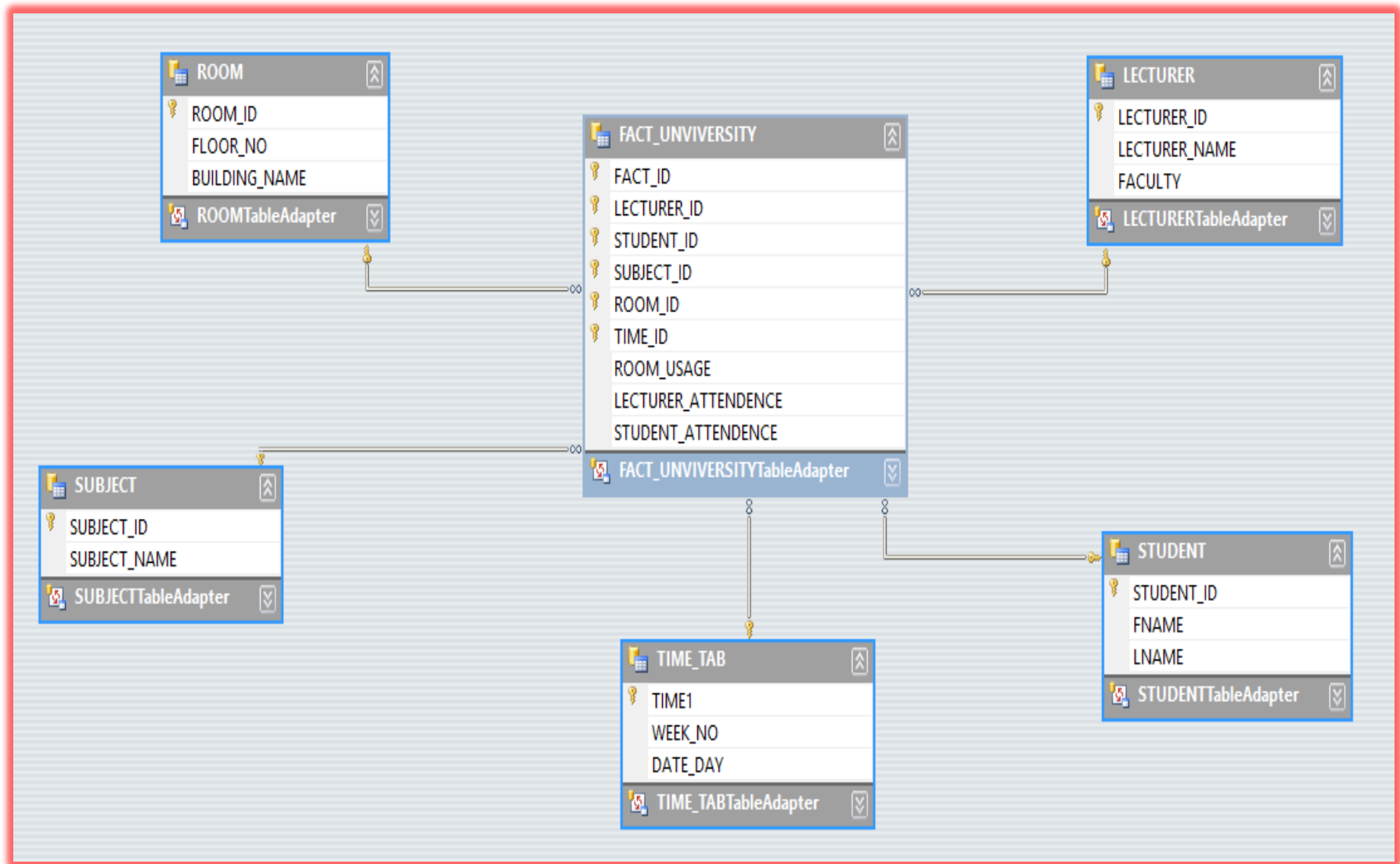
The screenshot shows the Oracle SQL Developer interface. The left pane displays a tree view of database objects under the 'conn' connection, with 'Tables (Filtered)' expanded. The main pane shows the 'FACT_VALUES' table selected, with the 'Data' tab active. The table data is displayed in a grid with columns: STUDEN..., LECTUR..., ROOM_ID, TIME_ID, and SUBJEC... (truncated). The data rows are numbered 1 through 26.

	STUDEN...	LECTUR...	ROOM_ID	TIME_ID	SUBJEC...
1	0011	99999	119	10:00	DOS300S
2	0022	99999	119	08:00	DOS300S
3	0033	99999	119	08:00	DOS300S
4	0044	99999	119	08:00	DOS300S
5	0055	99999	119	08:00	DOS300S
6	0066	99999	119	08:00	DOS300S
7	0022	64354	121	10:00	IRP300S
8	0010	64354	119	10:00	IRP300S
9	0010	64354	115	10:00	IRP300S
10	0077	67565	115	17:00	DOS300S
11	0066	67565	115	17:00	DOS300S
12	0088	67565	115	17:00	DOS300S
13	0099	67565	115	17:00	DOS300S
14	0010	67565	115	17:00	DOS300S
15	0022	67565	115	17:00	DOS300S
16	0033	67565	115	17:00	DOS300S
17	0044	67565	115	17:00	DOS300S
18	0011	65554	121	19:00	IRP300S
19	0022	65554	121	19:00	IRP300S
20	0033	65554	121	19:00	IRP300S
21	0044	65554	121	19:00	IRP300S
22	0055	65554	121	19:00	IRP300S
23	0066	65554	121	19:00	IRP300S
24	0077	65554	121	19:00	IRP300S
25	0088	65554	121	19:00	IRP300S
26	0099	65554	121	19:00	IRP300S

This block shows the continuation of the table data from the previous screenshot, starting from row 27. The columns are the same: STUDEN..., LECTUR..., ROOM_ID, TIME_ID, and SUBJEC... (truncated).

27	0010	65554	121	19:00	IRP300S
28	0022	67565	115	14:00	DOS300S
29	0033	67565	115	14:00	DOS300S
30	0011	99999	119	08:00	DOS300S

STAR SCHEMA:



All Reports:

ROOM USAGE:

Connecting to the database conn.

-----Report for percentage of ROOMS-----

Lecturer ID: 64354

Lecturer ID: 99999

Lecturer ID: 99999

Lecturer ID: 99999

Lecturer ID: 99999

Lecturer ID: 99999

Lecturer ID: 99999

Lecturer ID: 99999

Room ID: 119

8

Percentage Usage: 15

Lecturer ID: 64354

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Lecturer ID: 67565

Room ID: 121

11

Percentage Usage: 20

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 64354

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 65554

Lecturer ID: 65554

Room ID: 115

11

Percentage Usage: 20

Process exited.