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## Worksheet - SQL Part 1 - Table Creation

1. Draw the table that would be created if the following statement were issued:

```
CREATE TABLE ucfsxxx.STUDENTS
(STUDENT_PRN NUMERIC(10,0) NOT NULL,
SURNAME CHARACTER VARYING(15) NOT NULL,
NAME CHARACTER VARYING(20) NOT NULL,
DATE_OF_BIRTH DATE,
TERM_ADDRESS CHARACTER VARYING(100),
HOME_ADDRESS CHARACTER VARYING(100));
```

2. Write out the table creation script for the following table (don't forget the schensignment Project Exam Help

LECTURE TOPICS

	1-44	11.	1		
LECTURE_RE	TOPIC	DEPARTMEN	ATACULTY (	LICTURED NAM	LECTURER_SURNAM
F	TITLE	T"' P		E	E
GEOM1030	IT and	Geomatic	Engineerin	Jeremy	Morley
	Spatial Data	Engineering	g	4	
	Structures	l We(	lhat n	owcode	r
GEOM1040	Spatial Data	Geomatic	Engineeri	Muki COUE	Haklay
	Managemen	Engineering	g		
	t and				
	Display				

Note that we have made a lot of assumptions as to the maximum length of the data in each field - these should be documented somewhere and ideally validated with far more data than we have here.

3. Identify the errors in the following CREATE TABLE statement (there are 6):

CREATE TABLE ucfsxxx.TUBE\_FARES START\_ZONE CHARACTER VARYING(100), END\_ZONE NUMERIC(5,2), FULL\_FARE CHARACTER VARYING(20), STUDENT\_FARE NUMERIC(3,2) CHILD\_FARE NUMERIC(3,2),)

## Worksheet - SQL Part 2 - Constraints

### LECTURE\_TOPICS

LECTURE_RE	TOPIC_	DEPARTMEN	FACULTY	LECTURER_NAM	LECTURER_SURNAM
F	TITLE	Т		E	E
GEOM1030	IT and	Geomatic	Engineerin	Jeremy	Morley
	Spatial Data	Engineering	g		
	Structures				
GEOM1040	Spatial Data	Geomatic	Engineerin	Muki	Haklay
	Managemen	Engineering	g		
	t and				
	Display				

### LECTURE\_TIMETABLE

TIME_TABLE_	LECTURE_REF	ROOM_ID	DAY O1ect	START_TIME	END_TIME	Hours
1	GEO/41030	B14	Wednesday	10:00	12:00	2
2	GEOM1040	B14	Friday	09:00	11:00	2
3	GEOM1040	GE Cluster	Friday	14:00	16:00	2
4	GEON 1086	GE/Cluster	Tyesday C	14:08 O 177	16:00	2
	HUU		W COUC			

- 1. Write the SQAscio that vet create tequester as the frimary key for the LECTURE\_TOPICS table shown above.
- 2. Write the script that will create TIME\_TABLE\_REF as the primary key for the LECTURE\_TIMETABLE table shown above.
- 3. Write the script that will create LECTURE\_REF as a foreign key in LECTURE\_TIMETABLE, relating to the primary key in LECTURE\_TOPICS.

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## Worksheet - SQL Part 3 - Data Manipulation Language

4. Write a script to insert the following values into the table created above.

#### LECTURE TOPICS

LECTURE_RE	TOPIC_	DEPARTMEN	FACULTY	LECTURER_NAM	LECTURER_SURNAM
F	TITLE	Т		E	E
GEOM1030	IT and	Geomatic	Engineerin	Jeremy	Moreley
	Spatial Data	Engineering	g		
	Structures				
GEOM1040	Spatial Data	Geomatic	Engineerin	Muki	Haklay
	Managemen	Engineering	g		
	t and				
	Display				

- 5. Write a script to change the name of the Geomatic Engineering department to 'Geomatic and Spatial Engineering'.
- 6. Write Seignmente Peroject Exam Help
- 7. Write a script to delete all 'Geomatic and Spatial Engineering' lectures from the above table tps://powcoder.com

# Worksheet - SALdart Welliat powcoder

LECTURE\_TOPICS

LECTURE_R EF	TOPIC_ TITLE	DEPARTMENT	FACULTY	LECTURER_NA ME	LECTURER_SURNA ME
GEOM1030	IT and Spatial Data Structures	Geomatic Engineering	Engineeri ng	Jeremy	Morley
GEOM1040	Spatial Data Manageme nt and Display	Geomatic Engineering	Engineeri ng	Muki	Haklay
GEOM1000	Introductio n to UCL	University Undergradua te Group	None	Joan	Smith

#### LECTURE\_TIMETABLE

TIME_TABLE_ REF	LECTURE_REF	ROOM_ID	DAY	START_TIME	END_TIME	Hours
1	GEOM1030	B14	Wednesday	10:00	12:00	2
2	GEOM1040	B14	Friday	09:00	11:00	2
3	GEOM1040	GE Cluster	Friday	14:00	16:00	2
4	GEOM1030	GE Cluster	Tuesday	14:00	16:00	2

- 1. Write the query that will select all the rows from the LECTURE\_TOPICS table
- 2. Write the query that will select data for the LECTURE\_REF, TOPIC\_TITLE AND LECTURE\_NAME columns from the LECTURE\_TOPICS table.
- 3. Write the query that will generate the set containing all lecturer names and all lecturer surnames.
- 4. wratesignmentalhrojectberhamettelp.
- 5. Write the query that will find the total number of hours spent in class per subject.  $\frac{https://powcoder.com}{}$
- 6. Write a query (nested / sub query) to show how many hours Jeremy lectures each week

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