

Final Project – University Database – Part 2 (100 points)
Due Friday, June 21st by 11:59 PM

Overview

You will insert rows into the tables created for the University Database. The tables have been created for the University Database (based on Part 1).

Tasks (Continued from Part 1)

The second part of this project is to load some data into the database and apply certain update transactions and retrieval queries.

Load the records that will be provided to you into each of the tables that you created.

3) Insert rows into the tables created for the University Database based on the following tables:

ACADEMIC_SESSION:

Session_id	session_name
100	Spring session
200	Fall session
300	Summer session

PARENT_INFO:

parent_id	parent1_fn	parent1_ln	parent2_fn	parent2_ln
600	Neil	Smith	Doris	Smith
610	William	Ben	Nita	Ben
620	Sean	Taylor	Rhea	Taylor
630	Dave	Carmen	Cathy	Carmen
640	John	Audry	Jane	Audry

STUDENT:

student_id	first_name	last_name	reg_year	email	parent_id
720	Jack	Smith	01-jan-2012	jsmith@school.edu	600
730	Noah	Audry	01-jan-2012	naudry@school.edu	640
740	Rhonda	Taylor	01-sep-2012	rtaylor@school.edu	620
750	Robert	Ben	01-mar-2012	rben@school.edu	610
760	Jeanne	Ben	01-mar-2012	jben@school.edu	610
770	Mills	Carmen	01-apr-2013	mcarmen@school.edu	630

FACULTY:

faculty_id	first_name	last_name	email	salary	insurance	hourly_rate	dept_id
800	Jill	Miller	jmill@school.edu	10000	health	-	20
810	James	Borg	jborg@school.edu	30000	health,dental	-	10
820	Lynn	Brown	lbrown@school.edu	-	-	50	30
830	Arthur	Smith	asmith@school.edu	-	-	40	10
840	Sally	Jones	sjones@school.edu	50000	health,dental,vision	-	40

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COURSE:

Course_id	Course_name	session_id	dept_id	logon_id	password	building	room	date_time
195	Cell Biology	200	20	-	-	BUILDING D	401	MWF 9-10
190	Principles of Accounting	100	10	-	-	BUILDING A	101	MWF 12-1
191	Introduction To Business Law	100	10	-	-	BUILDING B	201	THUR 2-4
192	Cost Accounting	100	10	-	-	BUILDING C	301	TUES 5-7
193	Strategic Tax Planning for Business	100	10	tax123	password	-	-	-
194	General Biology	200	20	bio123	password	-	-	-

DEPARTMENT:

dept_id	dept_name	head
10	accounting	Mark smith
20	biology	Dave gold
30	computer science	Linda brown
40	literature	Anita taylor

EXAM_TYPE:

exam_type	name	description
MCE	Multiple Choice Exams	Choose More Than One Answer
TF	True and False Exams	Choose Either True or False
ESS	Essay Exams	Write Paragraphs
SA	Short Answer Exams	Write Short Answers
FIB	Fill in The Blanks Exams	Type in The Correct Answer

EXAM:

exam_id	start_date	exam_type	course_id
500	12-Sep-2013	MCE	190
510	15-Sep-2013	SA	191
520	18-Sep-2013	FIB	192
530	21-Mar-2014	ESS	193
540	02-Apr-2014	TF	194

STUDENT_ATT:

student_id	session_id	num_work_days	num_days_off	exam_eligibility
730	200	180	11	Y
740	300	180	12	Y
770	300	180	13	Y
720	100	180	21	Y
750	100	180	14	Y
760	200	180	15	Y

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EXAM_RESULT:

student_id	course_id	exam_id	exam_grade
720	190	500	91
730	195	540	87
730	194	530	85
750	195	510	97
750	191	520	78
760	192	510	70
720	193	520	97
750	192	500	60
760	192	540	65
760	191	530	60

STUDENT_COURSE:

student_id	course_id	grade
720	190	A
750	192	A
760	190	B
770	194	A
720	193	B
730	191	C
740	195	F
760	192	C
770	192	D
770	193	F

FACULTY_COURSE:

faculty_id	course_id	contact_hrs
800	192	3
800	193	4
800	190	5
800	191	3
810	194	4
810	195	5

FACULTY_LOGIN:

faculty_id	login_date_time
800	01-JUN-17 05.10.39.000000 PM
800	01-JUN-17 05.13.15.000000 PM
810	01-JUN-17 05.13.21.000000 PM
840	01-JUN-17 05.13.26.000000 PM
820	01-JUN-17 05.13.31.000000 PM
830	01-JUN-17 05.13.36.000000 PM

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4) Queries

Write a query to:

1. Display the data inserted in the tables created for the University database.
2. Display the different courses offered by the departments in the school.

course_id	course_Nname	dept_name
190	principles of accounting	accounting
191	introduction to business law	accounting
192	cost accounting	accounting

3. Display the courses offered in the Fall session.

course_name	session_name
general biology	fall session
cell biology	fall session

4. Display the course details, the department that offers the courses and students who have enrolled for those courses.

course_name	student_id	dept_name
principles of accounting	720	accounting
principles of accounting	760	accounting
introduction to business law	730	accounting

5. Display the names of the courses, the department that offers those courses, and students who have enrolled for those courses for department 20.

course_name	student_id	dept_name
general biology	770	biology
cell biology	740	biology

6. Display the details of the exam grades obtained by students who have opted for the course with ID in the range of 190 to 192.

course_id	course_name	exam_grade	exam_id
190	principles of accounting	91	500
191	introduction to business law	78	520
191	introduction to business law	60	530

7. Retrieve the rows from the EXAM_RESULT table, even if there are no matching records in the COURSE table.

student_id	exam_grade	course_id	course_name
720	91	190	principles of accounting
720	97	193	strategic tax planning for business
730	85	194	general biology

8. Retrieve the exam grade obtained by each student for every exam attempted.

first_name	last_name	student_id	exam_grade
jack	smith	720	91
jack	smith	720	97
noah	audry	730	85
noah	audry	730	87
robert	ben	750	78

9. Write a query to check if a student is eligible to take exams based on the number of class days attended.

student_id	num_work_days	exam_eligibility
720	180	y
730	180	y
740	180	y

10. The faculty of the different Departments realized that the exam grades entered in the EXAM_RESULT were showing an increased value of 5 points for each entry. Can you display the exam grades with 5 points subtracted from the marks obtained by each student?

first_name	last_name	student_id	adjusted grades
jack	smith	720	86
jack	smith	720	92
noah	audry	730	80
noah	audry	730	82
robert	ben	750	73

Submission Instructions:

Finally, submit your answers.

- For each of the queries above, submit the query and your result from running the query. Please use the provided SQL files to write your submissions.
- Change the name of the file yourname_project_part2.sql to your name (first name initial and last name).
Example: hibrahim_project_part2.sql
- Sumit two files:
 - yourname_project_part2.sql
 - yourname_project_part2.txt (OR yourname_project_part2.doc)
- The first file should contain your SQL queries that answer the questions.
- The second should contain your SQL queries that answer the questions, along with results from your answers to the questions.
- Zip the two files together to create one compressed file. **Example:** hibrahim_project_part2.zip
- Submit the zipped file via Canvas.

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Before submitting your assignment, review your queries and results for the following:

- Proper use of indentation and capitalization.
- Proper formatting of multi-line comments.