



Department

dept_name	building	budget
BBA	E	1000000
CSE	A	1000000
ENG	B	50000
LLB	B	34000
MIS	C	45000
PHY	C	150000

course

course_id	title	dept_name	credits
CSE300	Project	CSE [->]	3
CSE313	DBMS	CSE [->]	3
CSE314	DBMS_LAB	CSE [->]	3
ENG101	Grammer	ENG [->]	3
LLB102	Cyber_law	LLB [->]	3
MAT123	Vector	MIS [->]	4
MAT213	Calculus	MIS [->]	4
PHY103	Lab	PHY [->]	3

Instructor

ID	name	dept_name	salary
1111	ABC	CSE [->]	50000
1222	DEF	BBA [->]	45000
1234	MNO	ENG [->]	50000
2345	PQR	LLB [->]	29000
3122	GHI	CSE [->]	25000
4512	JKL	BBA [->]	50000
7632	STU	MIS [->]	30000

teaches

ID	id_section_table
1111 [->]	1 [->]
1111 [->]	2 [->]
3122 [->]	3 [->]
1234 [->]	4 [->]
2345 [->]	5 [->]
7632 [->]	6 [->]
7632 [->]	7 [->]
3122 [->]	8 [->]
1234 [->]	9 [->]

Section

id_section_table	course_id	sec_id	semester	year	building	room_number	time_slot_id
1	CSE300 [->]	1	Fall	2016	A	309	A
2	CSE313 [->]	2	Summer	2013	A	310	A
3	CSE314 [->]	1	Fall	2016	B	309	B
4	ENG101 [->]	1	Spring	2013	C	107	C
5	LLB102 [->]	1	Summer	2016	E	422	A
6	MAT123 [->]	2	Summer	2013	A	113	D
7	MAT213 [->]	2	Summer	2016	A	309	A
8	PHY103 [->]	2	Spring	2014	A	210	D
9	ENG101 [->]	1	Fall	2014	E	501	C

Practice Set 1

- ❖ Find out the course ids offered in summer 2016.



- ❖ Find out the departments with budget more than 50000.



- ❖ List all the course ids, semester and year taught before spring 2014.



- ❖ Find out all the courses offered by CSE dept.



- ❖ Find the instructor ids, course ids, sections, year and semester of the instructors who teach any course.



- ❖ Find the names of the instructors who teach any course at 2016.



- ❖ List the course ids that are taught by the instructors of MIS dept.



❖ Find out the courses offered by CSE.



❖ List the departments of A building.



❖ Find the instructors name and id who teaches at room 309.



❖ Find the department names whose courses are held at room 309.



❖ Find the department names with a "B" in it.



❖ Find the course ids which has "1" in their 4th character.



❖ Order the salaries of the instructors in increasing order.



❖ Show the instructor table so that salary is represented as
monthly_salary.



- ❖ If the given salary of the instructors are monthly then show their 'yearly_salary'.



- ❖ Find the average budget of the university.



- ❖ Find the maximum salary of all instructors.



- ❖ Show the average salary of all instructors.



- ❖ Find the instructors who teaches courses offered by MIS.



- ❖ Modify the database so that the instructors whose salary is less than 30,000 BDT is increased by 2000 BDT.



- ❖ Modify the database so that the instructors whose salary is less than 30,000 BDT is increased to 30,000 BDT.



- ❖ Change all the sections that are for year 2013 to 2014 and 2014 to 2015.



- ❖ Update the database so that the instructor 7632 does not teach any course.



- ❖ Insert another 3 credit course with an id BBA213, titled 'Cost Accounting' offered by BBA dept.



- ❖ The above course is offered for summer 2014 section 1. The classes will be held at E building Room 214 and at time B.



- ❖ This course will be taught by instructor 1222.



- ❖ Find the names of the departments who offer 3 credit courses.



- ❖ Find the name of the instructor who teaches MAT213 course.



❖ Find the course titles taught by ABC.

