BINUS University

Academic Career:		Class Program:		
*Undergraduate / ~~Master / Doctoral~~ *)*		*~~International~~/Regular/~~Smart Program/Global Class~~*)*		
☐ Mid Exam ☑ Final Exam ☐ Short Term Exam ☐ Others Exam : _____		Term : Odd/~~Even/Short~~ *)		
☑ Kemanggisan ☐ Alam Sutera ☐ Bekasi ☐ Senayan ☐ Bandung ☐ Malang		Academic Year : 2021 / 2022		
Faculty / Dept. : School of Information Systems / Information Systems		Deadline	Day / Date : Thursday, February 10th 2022	
			Time : 17.00	
Code - Course : ISYS6123 – Introduction to Database Systems		Class	: All	
Lecturer : Team		Exam Type	: Online	
*) *Strikethrough the unnecessary items*				
The penalty for CHEATING is DROP OUT!!!				

Ketentuan umum:
General Rules:

1. Mohon untuk membaca instruksi soal dibawah ini sebaik mungkin.
   Please read the exam instruction carefully
2. Mohon tidak melakukan copy-paste (plagiarism). Tindakan Plagiarism = Mencontek.
   Please do not copy-paste (plagiarism). Plagiarism = Cheating
   Lihat poster dibawah ini:
   Look at this poster below:

Verified by,
Richard, S.Kom., M.M. (D5053) and sent to Department/Program on Jan 15, 2022

3. Mohon perhatikan deadline waktu penyerahan jawaban ujian sesuai dengan jadwal di binusmaya.
   Please pay attention to the deadline of exam answer submission according to Binusmaya

4. Mohon mengerjakan ujian ini secara **INDIVIDU**, bukan berkelompok.
   *Please do this exam **INDIVIDUALLY** not in GROUP*

5. Tidak ada dispensasi jika mengumpulkan jawaban melewati deadline (**TANGGAL dan WAKTU**) yang telah ditentukan di Binusmaya dengan alasan apapun. Mahasiswa diharapkan tidak mengumpulkan jawaban mendekati deadline
   *There is no dispensation if you submit the answer over the deadline (**DATE and TIME**) specified in Binusmaya for any reason. Students are not expected to submit answers near the deadline.*

6. **Setelah file jawaban di upload, mohon pastikan kembali dengan cara mendownload kembali jawabannya sesuai dengan matakuliahnya.**
   After the answer file is uploaded, please check it again by downloading the answer according to the course.

7. **Setelah file jawaban diupload, mohon untuk melakukan *screenshot* layar hasil upload jawaban dan pastikan terdapat icon *waiting*** 🕒
   After the answer file has been uploaded, please take a screenshot of the uploaded answer screen and make sure there is a waiting icon 🕒

Learning outcomes:
LO 1: Describe concepts, terminologies, environment, and relational model in database system
LO 2 : Apply user role and right access to increase security in database system
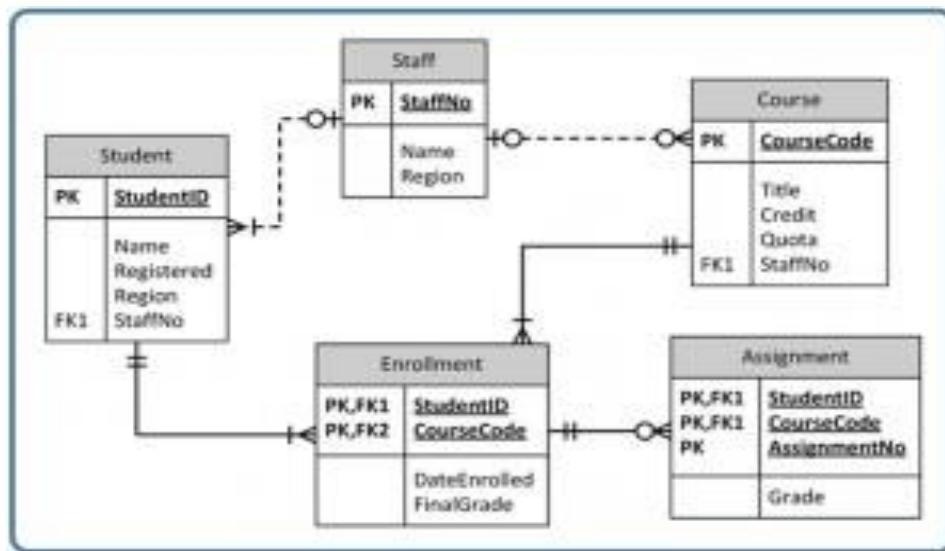LO 3: Construct Query of SQL that Suitable with the Problem
LO4: (C3) Application : design database using structured data model
LO5: (C2) Comprehension : recognize database technology concept

Student_Course database

Use the Student_Course database model to answer these questions

Create SQL script for these queries: (LO3)

1. List number of students registered in each region (10%)
   Output : | Region | Number_of_Students |

2. For each region with more than 1 student registered, find number of student in each region and order the result based on region in ascending order (10%)
    Output : | Region | Number_of_Students |

3. Find course code, course title which quota is larger than quota of every course registered by staffno 001 (10%)

4. List of all regions where there is a student but no staff. (10%)

5. List all course whose quota is greater than the average quota (10%)

6. Find all student who take Database course (use EXIST) (10%)
   Output : | StudentID | Name | FinalGrade|

7. Create view of students details at who get "A" FinalGrade (10%)

Normalization

Use this form below for Normalization process (LO4)

Roy's Burger House
Receiving Report
Moseley, Virginia 23120

Vendor: 512
Manny's Meat
16 River Road
Blackstone   Va   23801

Purchase Order Number: 612
Purchase Order Date: 2/9/2009
Auth. Employee Number: 11
Auth. Employee Name: Shelly Jones

Item Number	Description		Quantity	Unit of Measure	Price	Total
16	Hotdogs		7	Boxes	12.00	84.00
86	Hotdog Buns		8	Packs	11.00	88.00
85	Burger Buns		4	Packs	14.00	56.00
17	Burgers		5	Boxes	15.00	75.00
				Tax		15.60
				Shipping		10.00
Receipt Total						328.60

1. Normalization 1NF – 3 NF (15%)
   Note :
   Create 5 minutes video explain the normalization process. Submit the video on a drive then paste the video link in your answer sheet.

2. Create complete ERD from 3NF (15%)

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