

نماذج الاختبارات الشهرية

تجميع :

نور الجفري & فاطمة عاشور

Q1. Attempt any four

[5 Marks]

Define the following terms (answer should not exceed two lines) any 5

- | | |
|-----------------------|------------------------------|
| a. <i>entity</i> | b. <i>derived attribute</i> |
| c. <i>Primary Key</i> | d. <i>Attribute</i> |
| e. <i>redundancy</i> | f. <i>Composed Attribute</i> |

Q2. Attempt any two of the following

[5 Marks]

- A. When inconsistencies happen?
B. What is database security?
C. What is database abstraction?

Q3. Solve the following questions

[10 Marks]

- A. Write note on entity with any suitable example.
B. Describe the difference between Dense and Sparse?
C. Describe the following SQL commands with suitable examples
- Select* ⇒
 - Alter* ⇒
 - Create* ⇒
 - To Date* ⇒
 - Insert* ⇒

HADHRAMOUT UNIVERSITY OF SCIENCE & TECHNOLOGY

Faculty of Science

Subject: Principle of Database

Date: 21.10.2019

Level: 3rd

Department of Management Science

Lecturer: Dr. Faiz A.K. Bazanboor

Time: 50 Min

Max Marks: [20]

First is compulsory.

Choose any two question with first question.

Q1. Attempt any five

[10 Marks]

Define the following terms (answer should not exceed two lines)

- | | |
|-----------------------|-----------------------------|
| a. <i>entity</i> | b. <i>derived attribute</i> |
| c. <i>Primary Key</i> | e. <i>Attribute</i> |
| d. <i>redundancy</i> | f. <i>Schema</i> |

Q2. Attempt any two of the following

[5 Marks]

- A. What is the weak entity?
- B. What is composite and non-composite attribute?
- C. What is Database meaning?

Q3. Describe the following SQL commands with suitable examples [5 Marks]

- A. ~~Select~~
- ✓ B. ~~Alter~~
- ✓ C. ~~Create~~
- ✓ D. ~~To Date~~
- ✓ E. ~~Insert~~

Q1 State either the sentences are true or false. (أعرف الجمل التالية هل هي صحيحة أو غير صحيحة) [20 Marks]

- What is database redundancy? اشرح مع الأمثلة ما هو التكرار في قواعد البيانات?
- What is the database application? اشرح بالتفصيل مع الأمثلة ما هي تطبيقات قواعد البيانات?

Q2 Solve the following questions. (اجب على الأسئلة التالية) [15 Marks]

- What is composite attribute? Explain with one example اشرح مع الأمثلة ما هو الخواص المركبة
- What is a primary key? اشرح مع الأمثلة ما هو المفتاح الرئيسي
- What is the entity? Explain with one example اشرح بالتفصيل ما هو الكائن في قواعد البيانات

Q3 Solve the following questions [20 Marks]

- What is the difference between the data file and index file? ما هو الفرق بين الفهرس وملف البيانات?
- Where Sequential file used?

Q4 Answer the following [20 Marks]

- Give an example of the following Sql Command. (اكتب مثال على الاوامر التالية)
I. Create \Rightarrow create Database name;
II. Inner Join \Rightarrow
- Set up the field of the following Entity (Table) given bellow اشرح الحقول لكل جدول من الجداول التالية
الموضحة اسفل
 - Publisher
 - Author
 - Book
 - Subject

Max Marks 20
N.B.

- All questions are compulsory.
- Clear and precise answer full marks.
- Scale your answer paper.

Q1. Attempt the following

[2 Mark each]

- What is primary key in RDBMS?
- What is the application of the database? And give the description of one of the system applications. (description means tables and relations).
- Differentiate between the following (Define, Construct, Manipulate) of database.

Q2. solve the following questions

[2 Mark each]

Student

S_Id	Name	Dept_Id	Lvel	Address	Phone-1	Phone-2	Ac-Year

- Create the above table using the sql command?

After creating the above table do the following changes

- adding column "DOB" using Alter command.
- Create Primary key using sql command on the S-Id column.
- Drop the above table using sql command.
- Insert one record to the above table using sql command.

5.

- What is Weak Entity? And give suitable example of weak entity.
- What is Simple and composite attributes? Explain with suitable examples.

Q3. Define the following terms (تعريف)

[1 Mark each]

a. Data Security

b. Data redundancy

c. Integrity problems

c Data inconsistency

Q1 State either the sentences are true or false.

[30 Marks]

عرف الجمل التالية هل هي صحيحة او خاطئة، وضح الجمل المغلطة اذا وجدت

- Database used to draw the algorithm and flowchart. قاعدة البيانات المستخدمة لرسم الخوارزمية والمخطط الانسيابي
- Redundancy means the same information may be duplicated in one place. التكرار يعني انه يمكن تكرار نفس المعلومات في مكان واحد
- An entity set is a set of entities of the same type that share the same properties. مجموعة الكيانات هي مجموعة كيانات من نفس النوع تتشارك في نفس الخصائص
- Derived attribute can be derived from the values of other related attributes or entities.

Q2 Solve the following questions. (اجب على الاسئلة التالية)

[20 Marks]

- What is composite attribute? Explain with one example
- What is a primary key? Explain with one example
- What is the entity? Explain with one example.

[5 MARKS]

[5 MARKS]

[10 MARKS]

Q3 Solve the following questions

[20 Marks]

- What is the difference between the data file and index file? ما هو الفرق بين ملف البيانات وملف الفهرس
- Where Sequential file used? اين يتم استخدام الملف التسلسلي

Q4 Answer the following

[10 Marks]

- Give an example of the following Sql Command. (اكتب مثال على الاوامر التالية)

- Create
- Inner Join

- Set up the field of the following Entity (Table) given bellow. اشرح الحقول التي جود من الجدول التالي

- STUDENT
- Subject
- stuff

create table stu
s-id varchar 10

Q1 State either the sentences are true or false. (أعرف الجمل التالية هل هي صحيحة أو غير صحيحة) [20 Marks]

- What is database redundancy? الشرح مع الأمثلة ما هو التكرار في قواعد البيانات
- What is the database application? الشرح بالتفصيل مع الأمثلة ما هي تطبيقات قواعد البيانات

Q2 Solve the following questions. (أجب على الأسئلة التالية) [15 Marks]

- What is composite attribute? Explain with one example الشرح مع الأمثلة ما هو الخاص المركبة
- What is a primary key? الشرح مع الأمثلة ما هو المفتاح الرئيسي
- What is the entity? Explain with one example الشرح بالتفصيل ما هو الكائن في قواعد البيانات

Q3 Solve the following questions [20 Marks]

- What is the difference between the data file and index file? ما هو الفرق بين الملفين وملف البيانات
- Where Sequential file used?

Q4 Answer the following [20 Marks]

- Give an example of the following *Sql Command*. (اكتب مثال على الأوامر التالية)
— I. Create
— II. Inner Join
- Set up the field of the following Entity (Table) given bellow الشرح المعطى لكل جدول من الجداول التالية
الموصوفة أسفله

- Publisher الناشر
- Author المؤلف
- Book كتاب
- Subject موضوع

[20 Marks]

Solve the following questions by using Sql commands

- a. Display all records common between two tables (Employee, Dept) by using join command. *اظهر (الحقول المشتركة)*
- b. Display the following attributes (Emp.Name, Emp.Gender, Emp.Salary, Dept.Name, Dept.Location) using left join command. *اظهر الخواص المذكورة اعلاه*
- c. Display all record in both tables (Employee, Dept) using join command. *اظهر كل الحقول في الجدولين*
- d. Display all employee their salary less than 3000. *اظهر كل الرواتب اقل من 3000*
- e. Display the employee their Gender is Female only. *اظهر كل النساء في الجدول*

e) *like* Select * From EMP where Gender = "Female",

Employee Table

EmpId	Name	Gender	Salary	DeptId
1	Tom	Male	4000	1
2	Pam	Female	3000	3
3	John	Male	3500	1
4	Sam	Male	4500	2
5	Todd	Male	2800	2
6	Ben	Male	7000	1
7	Sara	Female	4800	3
8	Valarfe	Female	5500	1
9	Jemes	Male	6500	NULL
10	Russell	Male	8800	NULL

d) Select * From EMP where Salary < 3000

Dept Table

DeptId	Name	Location	Dept Head
1	IT	London	Rick
2	PayRoll	Dubai	Ron
3	HR	New York	Christie
4	Other Dept	sednye	Cindrella

Q5 Solve the following questions by using Sql commands

[30 Marks]

- Display all records common (حقوق مشتركة) between two tables (Employee, Dept) by using join command.
- Display the following attributes (EmpName, Emp Gender, Emp.Salary, Dept.Name, Dept.Location) using left join command.
عرض جميع السجلات المشتركة بين جدولين (الموظف - القسم) باستخدام أمر join
- Display all records in both tables (Employee, Dept) using join command.
عرض جميع السجلات في كلا الجدولين (الموظف - القسم) باستخدام أمر JOIN

Employee Table

EmpId	Name	Gender	Salary	DeptId
1	Tom	Male	4000	1
2	Pam	Female	3000	3
3	John	Male	3500	1
4	Sam	Male	4500	2
5	Todd	Male	2800	2
6	Ben	Male	7000	1
7	Sara	Female	4800	3
8	Valarie	Female	5500	1
9	Jemes	Male	6500	NULL
10	Russell	Male	8800	NULL

Dept Table

DeptId	Name	Location	Dept Head
1	IT	London	Rick
2	Payroll	Dulais	Ron
3	HR	New York	Christie
4	Other Dept	Seattle	Cindrella

1) select EMP, FName, Dept, Dname
 FROM EMP
 INNER JOIN Dept ON EMP.DeptId = Dept.DeptId

 2) Full
 3) Left

Q4. Solve the following question?

[30 Marks]

a. Normalize the following given attribute gNF to 1NF

Order ID
Date
Cut name
Cust address
Cust phone
- Stock_id_1
- Stock_desc_1
- Stock_qty_1
- Stock_unit_1
- Stock_source_dept_1
- Stock_source_city_1
Stock_id_2
Stock_desc_2
Stock_qty_2
Stock_unit_2
Stock_source_dept_2
Stock_source_city_2

stock id
1 2
Cut name
Cust address
Cust phone
Order ID

b. Define the following:

I. Simple and composite attributes

II. Weak Entity Sets

اسم و العنصرين في الجدولين
التي في الجدولين في الجدولين
التي في الجدولين في الجدولين
التي في الجدولين في الجدولين
التي في الجدولين في الجدولين

Q1) Choose the correct answer in the parenthesis

- 1) The collection of information stored in the database at a particular moment is called (schema , instance ,Database ,file processing system).
- 2) Authorization is one of languages of SQL which (denies &allows to access database, creates the objects within database, commits the data permanently, check the constraints)
- 3) The data type responsible for variable-length character string with user-specified maximum length n is (Char , Varchar ,number ,integer)
- 4) The syntax responsible for the attribute addition into the existing table is (alter table t modify A , alter table t plus A , alter table t add A , create table t add A).

Q2) What are the major disadvantages in the file processing system?

Q3) we have the below table which contains different ,unordered, iterative and inconsistent data ,therefore you must resolve the table in order to eliminate foregoing problems according to the well-known rules .

Project Code	Project Title	Project Manager	Project Budget	Employee No.	Employee Name	Department No.	Department Name	Hourly Rate
PC001	Pensions System	M Philips	24500	010001	A Jones	L001	IT	18.50
PC002	Pensions System	M Philips	24500	010002	L Jones	L003	Pensions	18.50
PC003	Pensions System	M Philips	24500	010003	P Lewis	L004	IT	24.00
PC004	Salaries System	H Martin	17400	010004	B Jones	L004	IT	23.75
PC005	Salaries System	H Martin	17400	010005	A Smith	L004	IT	18.00
PC006	Salaries System	H Martin	17400	010006	T Gilbert	L008	Database	25.50
PC007	Salaries System	H Martin	17400	010007	X Richards	L008	Salary	17.00
PC008	HR System	K Lewis	12250	010008	T Gilbert	L008	Database	23.25
PC009	HR System	K Lewis	12250	010009	P Lewis	L004	IT	17.50
PC010	HR System	K Lewis	12250	010010	B Jones	L009	HR	18.50

Q4) write a command by using DDL for create above table after normalization.

Q1) answer by true or false .

- 1) It stores permanent records in various files, and it needs different application programs to extract records from, and add records to, the appropriate files called as Database collection (☒)
- 2) The SQL DDL includes commands for specifying access rights to relations and views called as Integrity (☒)

Q2) How to design Databases?

Q3) What are the differences between varchar and char data types ?

Q4) we have the below table which contains different ,unordered, iterative and inconsistent data ,therefore you must resolve the table in order to eliminate foregoing problems according to the well-known rules .

ST_ID	ST_NAME	ST_Degree	ST_Add	Grad	Co_ID	CO_name	Tr_ID	Tr_name
1111	Ahmed omar	50	Mukalla	A	P652	DB	221	Ali
1111	Ahmed Omar	45	Mukalla	B	P245	DBA	222	Yasser
1122	Hassan Ali	43	Aden	A	P652	DB	224	Mohmm aed
2111	Hasham omar	36	Mukalla	C	P650	CS	235	Rami

Q5) write a command by using DDL for create above table after normalization.

Semester end Exam
Subject: DataBase
Date: Dec, 2019
Total Marks: 100

Lecturer: Dr. Faiz A.K. Bozanboor
Dept: MIS
Time: 2:30 Hours

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Handwritten signature

R.N.

- All questions are compulsory.
- Figures to the right indicate full marks.
- Write readable answers.

Q1. Solve the following questions.

[20 Marks]

- What is the difference between the Primary key and Foreign Key? *ما الفرق بين المفاتيح الرئيسة والمفاتيح الأجنبية*
- When the problem of the inconsistency occurs? Answer with suitable example. *متى يظهر مشكلة التناقض؟ اجب بمثال مناسب*
- What is the DBMS? *ما هو النظام المتكامل للمعلومات؟*

Q2. Solve the following questions.

[20 Marks]

- What is Entity Relation Diagram (ERD)? Explain *ما هو مخطط الكيانات والعلاقات؟ اشرح*
- What is Sparse in index file organization? Explain *ما هو التفرق في تنظيم الملفات المؤشر؟ اشرح*
- Explain the application of the Database? *اشرح تطبيقات قواعد البيانات*
- Why relation used in Database? *لماذا تستخدم العلاقات في قواعد البيانات؟*

Q3. Write an SQL command to report the following

[30 Marks]

customer	C_id
Name	
Street	
City	
Ac_id	

Account	Ac_id
Balance	

Branch	B_id
Ac_id	
Balance	

- Write a query to display the customer name, street, city, Account ID
- Show all customers who have taken more than one loan (قرض) from the bank.
- Show all bank customer who have more than one account.
- Show all account holder who living in makkala.

- اكتب أوامر لإظهار المعلومات التالية للموظف (التقرير) العميل: رقم الحساب، اسم العميل، الشارع، المدينة
- اظهر كل العملاء الذين أخذوا أكثر من قرض
- اظهر كل العملاء الذين أخذوا أكثر من حساب
- اظهر كل العملاء من مكة

a- `select Name, Street, City, Ac_id from customer`
b- `select Customer, Account, A`

ج- `select C_id, Name, Street, City from customer`
د- `where {city = "مكة"}`

Q1. Attempt any four

[5 Marks]

Define the following terms (answer should not exceed two lines) any 5

☒ a. entity

c. ☒ Primary Key

e. redundancy

☒ b. derived attribute

☒ d. Attribute

f. Composed Attribute

Q2. Attempt any two of the following

[5 Marks]

A. When inconsistencies happen?

B. What is database security?

C. What is database abstraction?

Q3. Solve the following questions

[10 Marks]

A. Write note on entity with any suitable example.

B. Describe the difference between Dense and Sparse?

C. Describe the following SQL commands with suitable examples

ra. Select

rb. Alter

rc. Create

~~rd. To Data~~

re. Insert

مسئله جوفه البتة

المسئله البتة

المسئله البتة

First is compulsory

Choose any two question with first question

Q1. Attempt any four

[5 Marks]

Define the following terms (answer should not exceed two lines)

a. entity

c. Primary Key

b. derived attribute

f. Composed Attribute

is thing or object in the real world which is an object.

Q2. Attempt any two of the following

[5 Marks]

A. When inconsistencies happen?

B. What is database security?

C. What is database abstraction?

it is unique column (id) in table where every record has unique key

Q3. Solve the following questions

[5 Marks]

A. Write a note on entity

B. Describe the difference between Dense and Sparse?

Q4. Buildup tables of the following library system, Author table, Books Table, Publisher Table, and Subject table.

- Show the necessary attribute of each table.
- Buildup the relation between the tables.

HADHRAMOUT UNIVERSITY OF SCIENCE & TECHNOLOGY

Subject: Principle of Database
Date: 31.12.2012
Level: 2nd

Faculty of Science
Department of Science

Lecturer: Dr. Faiz A.K. Bazanboor

Time: 1 Hour

Max Marks: [15]

First is compulsory

~~Choose any two question~~ with first question

Q1. Attempt any four

[5 Marks]

Define the following terms (answer should not exceed two lines)

- | | |
|----------------|-------------------------|
| a. entity | b. derived attribute ✗ |
| c. Primary Key | f. Composed Attribute ✗ |

Q2. Attempt any two of the following

[5 Marks]

- A. When inconsistencies happen?
- B. What is database security?
- C. What is database abstraction?

Q3. Solve the following questions

- A. Write a note on entity
- B. Describe the difference between Dense and Sparse?

Q4. Buildup tables of the following library system, Author table, Books Table, Publisher Table, and Subject table.

- Show the necessary attribute of each table.
- Buildup the relation between the tables.

Q-Number	Depend On Allah, Read The Questions Carefully Then Write The Answers	Q-Mark	IT
1	Procedures refer to the instructions and rules that govern the design and use of the database. The users of the system and the staff who manage the database require documented procedures on how to use or run the system. A) Software B) Data C) Procedure D) ABC	6	
2	Data Administrator (DA) and The Database Administrator (DBA) what is the difference in short? <i>DBA it's near to the technical thing more than DA but DA near the manager of Data like recover, insert</i>	6	
3	Database is used for storing and retrieving data Yes or No? <i>Yes</i>	6	
4	Consider the statement: It is possible that a relation will not have a super key. In this case, the database designer must add an attribute that gives the relation a super key. True or False and briefly explain your answer. <i>True</i>	6	
5 (A,B)	<p>Figure below is an example of what relationship explain:</p> <ul style="list-style-type: none"> • 1:1 • M:1 • None • <input checked="" type="radio"/> N:N • 1:M <p><i>6</i></p> <p><i>28/30</i></p> <p><i>any</i></p>	6	

Q4 is True, because the relation need Super key to represented and related between entities.
 example:
 entity order in system need super key.
 The Designer add the attribute.

First is compulsory

Choose any two question with first question

Q1. Attempt any four

[5 Marks]

Define the following terms (answer should not exceed two lines)

a. entity

c. Primary Key

b. derived attribute

f. Composed Attribute

is thing or object in the real world
all object.

Q2. Attempt any two of the following

[5 Marks]

A. When inconsistencies happen?

B. What is database security?

C. What is database abstraction?

is type column (it) in table where every
it is unique column
record has unique key

Q3. Solve the following questions

[5 Marks]

A. Write a note on entity

B. Describe the difference between Dense and Sparse?

Q4. Buildup tables of the following library system, Author table, Books Table, Publisher Table, and Subject table.

- Show the necessary attribute of each table.
- Buildup the relation between the tables.

Q4. Solve the following question?

Organization wants to establish the IT department with full equipment, you requested to suggest the following type of the equipment types for the organization, every department should have computer, and connected to one main server. Describe the type of hardware and software to installed in the organization.

ارادت ان تستحدث قسم تكنولوجيا المعلومات فيها، فون كنت عليك المهمة اي مهمة انتم المؤسسة بحيث ان الحواسيب في جميع اعمالها وكل عمليات الشركة تكون تحت خادم شبكة واحد. ارجى منكم ان توصفون المطلوب لهذه المؤسسة من البرمجيات والعتاديات الضرورية للقيام بهذه المهمة

All questions are compulsory.
Figures to the right indicate full marks.
Write readable answers.

[15 marks]

Q1. Explain the following questions.

- a. What is the meaning of detach? Explain
- ✓b. Why durability property used in transaction system? Explain
- ✓c. What is the type of the database backups?

[15 marks]

Q2. Solve the following questions.

- ✓a. Can be backed up part of database not all DB, if it yes explain how can be so?
- ✓b. What is Sql Server Reports Services (SSRS)?
- ✓c. What is mirroring? And when witness server used in mirroring database?

[20 marks]

Q3. Solve the following questions.

Discuss the entire requirements of the Information Technology Center as follow

- a. The best database management system to adopted.
- b. Best hardware equipment of network.
- c. Best type of servers.
- d. Security solutions of the ITC.

P.T.O. →

Semester end Exam

Subject: DataBase II

Date: 2nd, Jun, 2022

Total Marks: 30

Lecturer: Dr. Faiz A.K. Bazanboor

Dept: Computer Science

Time: 50 Min

B.N.

- All questions are compulsory.
- Figures to the right indicate full marks.
- Write readable answers.

Q1. Solve any two of the following questions.

[10 Marks]

- a. What is the difference between the Primary key and Foreign Key?
- b. When the problem of the inconsistency occurs? Answer with suitable example.
- c. What is *entity set* and give suitable example?

Q2. Solve the following questions.

[20 Marks]

- a. What is data abstraction? Explain
- b. What is index file organization?
- c. Where the sequential file organization be used?
- d. Give an example of the driven attribute.
