

	 Find the customerid of customers in the customers table that have 10101 as customerid.
	select customerid from customers wher customerid - 10101
<u></u>	4. Find the highest price of an item in items_ordered table. Sclect T. price , S. price from items_ordered T, items_ordereds where T. price > S price.
9	5. Give the user Manager the privilege of reading data from items_ordered relation. Grant select on items_ordered to user manager.

-----ALL THE BEST-----

Q. 7 Use the tables below to answer the following questions:

customers				
customerid	firstname	lastname	city	state
10101	John	Gray	Lynden	Washington
10298	Leroy	Brown	Pinetop	Arizona
10299	Elroy	Keller	Snoqualmie	Washington
10315	Lisa	Jones	Oshkosh	Wisconsin
10325	Ginger	Schultz	Pocatello	Idaho

items_ordered				
customerid	order_date	item	quantity	price
10330	30-Jun-1999	Pogo stick	1	28.00
10101	30-Jun-1999	Raft	1	58.00
10298	01-Jul-1999	Skateboard	1	33.00
10101	01-Jul-1999	Life Vest	4	125.00
10299	06-Jul-1999	Parachute	1	1250.00

Write SQL statements for the following queries:

 $(5 \times 4 = 20)$

 List all customers IDs along with their items and order date. (Customer who has not ordered any item should also be shown in the result)

collet astorner D. From	
select customers, constomerid, items orderd, customerid, ite	em,
rdar data from Customers To items - ordered Router	
(1) full oute join	
2. Create a view Idaho_customers to show customers information in Idaho State only.	
Create view Idaho customers	
2) select * from Customer)	

Page | 12

6 Explain the d	atabase web application architectu	re with diagram. (10 Mar
		Berresen
	(lager)	Provser
		logecal
		Data
data		
aaia	a polication	Serves
	Web	Stored

Page | 11

Q.5	Compute at least $\underline{\textbf{6}\ rules}$ of the closure of the following set	F of functional
depend	dencies for relation schema $R = (A, B, C, D, E)$.	

 $A \rightarrow BC_{\nearrow}$

 $CD \rightarrow E$

 $B \rightarrow D$

E A → A

NOTE: You MUST show all the stages of your work and use Armstrong's Axioms to explain every step.

(10 Marks)

	A -> BC BC -> CD Augmention A -> BC -> CD Transitivity. [A -> CD] 0
	$CD \rightarrow E$ $E \rightarrow A$ $CD \rightarrow E, E \rightarrow A$ $CD \rightarrow A$ $CD \rightarrow A$ $CD \rightarrow A$
	$CB \rightarrow DC$ Augmention $CD \rightarrow E$ $CB \rightarrow CD, CD \rightarrow E$ Transitivity $CB \rightarrow E[3]$
	$E \rightarrow A$ $A \rightarrow BC$ $E \rightarrow A, A \rightarrow BC$ $Transitivity$ $E \rightarrow BQQ$
Page 10	EA -> A EA -> A, A -> BC Transitivity A -> BC EA -> BC 5



Ministry of Higher Education Saudi Electronic University College of Computing and Informatics

	4. List two reasons why null values might be introduced into the database.
	1- Values unkonew.
(4)	2. Values dosnot exist.
-	5. Explain the distinction between total and partial constraints. to tal must belong one of level-lurer entity set.
2	partial, not belong one of level-luer entity set.

(u. 4 Answer the following questions briefly.	$(5 \times 4 = 20)$
	1. What is a view?	1
	a view is SQL greany State	nent
	Provide to user aview and hid de	ratials
(2)	of query user dosnot can't s.	ee it.
	2. List three goals of normalization.	
	1- remove redandancy.	
2	2- Solve problem of insett	
2)	update and delet.	
	3 - Transitive dependency.	
-	3. What is the difference between commit work and rollback work Commit work transaction willy expected.	
	vollback work preturn ever ex	centre
(3)) wehn fall as is dosnot mere	Wapen.

Ministry of Higher Education Saudi Electronic University College of Computing and Informatics

Q. 3 Fill in the blanks with appropriate words:

 $(10 \times 1 = 10)$

Weak Entity Set	First	Grant	Second
View	НТТР	Time-Stamp	Normalization
Cookie	Index	Rename	File Manager

- 3. The protocol is connectionless.
- 4. To give authorization to database users on table and views, the SQL command is used.
- 5. The operator ρ means ... Renceme......
- ... No.r.ma. Uza. liesa is a process to help reduce the likelihood of data anomalies.
- 8 is a data structure used to speed up access to records with specified values.
- 9.t. w. E. S. t. Caso P.... type is the date plus time of day.

Q. 2 For each of the following statements, answer with True or False. $(10 \times 1 = 10)$

S.	STATEMENT	TRUE/]
No.		FALSE	
1.	A primary key is a field whose values identify each record in a database	丁	
2.	A database management system is a collection of interrelated data and a set of program to access those data	T	~
3.	Atomic attributes are attributes that can be further divided.	1.	
4.	NULL signifies an unknown value or a value that does not exist	-	
5.	The duplicate rows removed from the result of project operation	F	X
6.	Given the functional dependency $R \to (S,T)$, then it is also true that $R \to S$.	TA	
7.	A relation is in Boyce-Codd Normal Form (BCNF) if every determinant is a composite key.	F	
8.	A table is in BCNF if every determinant in the table is a candidate key	T	1
9.	Cookies can be stored permanently or for a limited time	Ť,	X
10.	HyperText Transfer Protocol (HTTP) is used for communication with the Web server.	T	

	16. From a structural point of view, 2NF is better than
	A. INF
	B. 3NF
	C. 4NF
1V	D. BCNF
١)	17. What does HTML stand for?
	A. Home Tool Markup Language
1	8. Hyperlinks and Text Markup Language
X	Hyper Text Markup Language
	D. High Tool Markup Language
	18 a small piece of text containing identifying information.
	A. HTML
/	B. HTTP
~	Cookies Cookies
(1)	D. Encryption
	19. Audit Trails are used to:
	A. Authorize a user
\	B. Locate when and how a data is updated
	C. Encrypt data
	Reduce cost of serving pages
	20 is (are) a server side scripting language
	A. JSP
	B. PHP
K	C. Both A and B
(1)	D. None of the above

- 11. Transaction either fully executed or rolled back as if it never occurred is
 - A. Atomic transaction
 - B. Rollback work
 - C. Commit work
 - D. API
- 12. A _____ relationship set is represented as a schema with attributes for the primary keys of the two participating entity sets, and any descriptive attributes of the relationship set.
 - A. Many-to-Many
 - B. Many-to-One
 - C. One-to-Many
 - D. One-to-One
- 13. In the below figure, Section is considered to be



- A. Strong entity
- B. Primary key
- C. TABLE operation
- D. Weak entity
- 14. An is a set of entities of the same type that share the same properties
 - A. Entity set
 - B. Attributes
 - C. Primary key
 - D. Relation
- 15. Tables in second normal form (2NF)
 - A. Eliminate transitive dependencies.
 - B. Have fields must contain a single value.
 - C. Have a composite key

Have all non-key fields depend on the whole primary key



	6.	A is a select-from-where expression that is nested within
		another query
0		A. Schema
	/	8. Subquery
		C. Query
		D. Above all
	7.	What command is used to get back the privileges offered by the GRANT
		command?
		A. Grant
X		B. Revoke
		C. Execute
		D. Run
	8.	is a logical unit of work that contain one or more SQL statements.
		A. Query
		B. Workspace
		#. Transaction
		D. Savepoint
	9.	computes the join and then adds tuples from one relation that does
		not match tuples in the other relation to the result of the join.
X		A. Join
		B. Natural join
	•	C. Cartesian product
		D. Outer join
	10.	Avg, min, max, sum and count are called functions.
		A. Algebra
		B. Normal
	/	. Aggregate
	,	D. Complex

Q. 1 For each of the following multiple choice questions, choose one correct answer.

 $(20 \times 1 = 20)$

- 1. Which is the database language
 - A (
 - R C+
 - SOL
 - D. None of these
- 2. Which is the component of database management system
 - A. Query Language
 - B. Database Manager
 - C. File manager
 - B. All of these
- 3. Key to represent relationship between tables is called
 - A. Primary key
 - B. Secondary key
 - Foreign key
 - D. Candidate key
- 4. A set of possible data values is called
 - A. Attribute
 - B. Degree
 - C. Tuple
 - D. Domain
- Fixed point number, with user-specified precision of p digits, with n digits to the right of decimal point is
 - A. Char (p,d)
 - Numeric (p,d)
 - C. Float (p,d)
 - D. Above all



Ministry of Higher Education Saudi Electronic University College of Computing and Informatics

Final Examination Cover Sheet Second Semester: 1436-1437 / 2015-2016

Course Title: INTROD	UCTION TO ASE	Course Code: Number of	IT244
Exam Duration: 2 HOUR	2 HOURS		13
Student Name: Ohood	Saad Alsino	Student ID:	1301255 72
	Exam Gu	ing a great produced and a second	
Mobile phones are not p	ermitted.		
ACOMOR SELECTION	Marking	Scheme	
Questions			Score
Question 1 (20 M	arks)	14	
Question 2 (10 M	arks)	00	
Question 3 (10 M	arks)	10	
Question 4 (20 M	arks)	14	
Question 5 (10 M	arks)	108	
Question 6 (10 M	arks)	+7	
Question 7 (20 M	arks)	13	
Total: 100 Mai	ks	20	

Final Total: 50 Marks