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SR.NO	Project NAME	Technology
1	Online E-Learning Platform Hub	React+Springboot+MySql
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql
3	Tour and Travel management System	React+Springboot+MySql
4	Election commition of India (online Voting System)	React+Springboot+MySql
5	HomeRental Booking System	React+Springboot+MySql
6	Event Management System	React+Springboot+MySql
7	Hotel Management System	React+Springboot+MySql
8	Agriculture web Project	React+Springboot+MySql
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql
10	E-commerce web Project	React+Springboot+MySql
11	Hospital Management System	React+Springboot+MySql
12	E-RTO Driving licence portal	React+Springboot+MySql
13	Transpotation Services portal	React+Springboot+MySql
14	Courier Services Portal / Courier Management System	React+Springboot+MySql
15	Online Food Delivery Portal	React+Springboot+MySql
16	Muncipal Corporation Management	React+Springboot+MySql
17	Gym Management System	React+Springboot+MySql
18	Bike/Car ental System Portal	React+Springboot+MySql
19	CharityDonation web project	React+Springboot+MySql
20	Movie Booking System	React+Springboot+MySql

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21	Job Portal web project	React+Springboot+MySql
22	LIC Insurance Portal	React+Springboot+MySql
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
57		React+Springboot+MySql
58		React+Springboot+MySql
59		React+Springboot+MySql
		Reactispinigoodtiviysqi
60		React+Springboot+MySql

Spring Boot + React JS + MySQL Project List

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9cIHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=IIOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyI4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/ 4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W GRw?si=Y jv1xV BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSlSm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

A relational database consists of a collection of	
Tables	
Fields	
Records	
Keys	
ew Answer	
swer: a	
planation: Fields are the column of the relation or tables. Records are each row in a relation. Keys are the constraints in a relation.	ation.
Ain a table represents a relationship among a set of values.	
Column	
Key Row	
Entry	
ew Answer	
swer: c	
planation: Column has only one set of values. Keys are constraints and row is one whole set of attributes. Entry is just a piec	e of data.
The termis used to refer to a row.	
Attribute	
Tuple	
Field Instance	
ew Answer	
W I HISWCI	
swer: b	
planation: Tuple is one entry of the relation with several attributes which are fields.	
The term attribute refers to aof a table.	
Record	
Column	
Tuple	
Key	
ew Answer	
swer: b	
planation: Attribute is a specific domain in the relation which has entries of all tuples.	
For each attribute of a relation, there is a set of permitted values, called theof that attribute.	
Domain Relation	
Set	
Schema	
ew Answer	
swer: a	
planation: The values of the attribute should be present in the domain. Domain is a set of values permitted.	

b) Relation, Schema
c) Relation, Domain
d) Schema, Instance
View Answer
Answer: d
Explanation: Instance is an instance of time and schema is a representation.
7. Course(course_id,sec_id,semester)
Here the course_id,sec_id and semester areand course is a
a) Relations, Attribute
b) Attributes, Relation
c) Tuple, Relation
d) Tuple, Attributes
View Answer
A
Answer: b Explanation: The relation course has a set of a <mark>ttributes co</mark> urse_id,sec_id,semest <mark>er .</mark>
Explanation: The relation course has a set of attributes course_id,set_id,sethester.
8. Department (dept name, building, budget) and Employee (employee_id, name, dept name, salary)
Here the dept_name attribute appears in both the relations. Here using common attributes in relation schema is one way of relating
relations.
a) Attributes of common
b) Tuple of common
c) Tuple of distinct
d) Attributes of distinct View Answer
view Answer
Answer: c
Explanation: Here the relations are connected by the common attributes.
<u> </u>
9. A domain is atomic if elements of the domain are considered to beunits.
a) Different
b) Indivisbile
c) Constant
d) Divisible
View Answer
Answer: b
Explanation: None.
10. The tuples of the relations can be oforder.
a) Any
b) Same
c) Sorted
d) Constant
View Answer
Answer: a
Explanation: The values only count. The order of the tuples does not matter.

Database Questions and Answers – Keys
Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record? Our didn't blow.
a) Candidate key b) Sub key
c) Super key
d) Foreign key
View Answer
VIEW MIISWEI
Answer: c
Explanation: Super key is the superset of all the keys in a relation.
 2. Consider attributes ID, CITY and NAME. Which one of this can be considered as a super key? a) NAME b) ID c) CITY d) CITY, ID View Answer Answer: b Explanation: Here the id is the only attribute which can be taken as a key. Other attributes are not uniquely identified.
 3. The subset of a super key is a candidate key under what condition? a) No proper subset is a super key b) All subsets are super keys c) Subset is a super key d) Each subset is a super key View Answer
Answer: a Explanation: The subset of a set cannot be the same set. Candidate key is a set from a super key which cannot be the whole of the super set.
4. Ais a property of the entire relation, rather than of the individual tuples in which each tuple is unique. a) Rows

Explanation: The attributes name, street and department can repeat for some tuples. But the id attribute has to be unique. So it forms a primary

b) Keyc) Attributed) FieldsView Answer

Answer: b

a) Nameb) Streetc) Id

d) Department View Answer

Answer: c

key.

a) Id

Explanation: Key is the constraint which specifies uniqueness.

5. Which one of the following attribute can be taken as a primary key?

6. Which one of the following cannot be taken as a primary key?

b) Register number	
c) Dept_id	
d) Street	
View Answer	
Answer: d Explanation: Street is the only attribute which can occur more than once.	
7. An attribute in a relation is a foreign key if thekey from one relation is used as an attribute in that relation. a) Candidate	
b) Primary	
c) Super	
d) Sub	
View Answer	
Answer: b	
Explanation: The primary key has to be referred in the other relation to form a foreign key in that relation.	<u>. </u>
8. The relation with the attribute which is the primary key is referenced in another relation. The relation which has the attribute as a primary key is referenced in another relation.	ary ke
is called	
a) Referential relation	
b) Referencing relation	
c) Referenced relation	
d) Referred relation	
View Answer	
Answer: b	
Explanation: None.	
9. Theis the one in which the primary key of one relation is used as a normal attribute in another relation.	
a) Referential relation	
b) Referencing relation	
c) Referenced relation	
d) Referred relation	
View Answer	
Answer: c	
Explanation: None.	
	7
10. Aintegrity constraint requires that the values appearing in specified attributes of any tuple in the referencing relation also	appear
in specified attributes of at least one tuple in the referenced relation.	
a) Referential	
b) Referencing	
c) Specific d) Primary	
View Answer	
Answer: a	
Explanation: A relation, say r1, may include among its attributes the primary key of another relation, say r2. This attribute is called a foreign and the control of the co	
from r1, referencing r2. The relation r1 is also called the referencing relation of the foreign key dependency, and r2 is called the reference	æd
relation of the foreign key.	

	and Answers – Relational Query Operations and Relational Operators	
1. Using which language ca	n a user request information from a database?	
a) Query	•	
b) Relational		
c) Structural		
d) Compiler		
View Answer		
Answer: a		
	e is a method through which the database entries can be accessed.	
2.5(-1.47)		
2. Student(ID, name, dept i		
In this query which attribute a) Name	s form the primary key?	
a) Name b) Dept		
c) Tot_cred		
d) ID		
u) ID View Answer		
View Allswei		
Answer: d		
Explanation: The attributes	name, dep <mark>t and tot_cr</mark> ed can have same values unlike ID.	
c) Relational algebrad) Query language		
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer	uple relational calculus are non-procedural language. Query language is a method through which database of the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca
Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b	IUE WII HAKKA Y 5/2	entries ca
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries c
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c 5. The result which operation	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c 5. The result which operatio a) Join	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c 5. The result which operation a) Join b) Cartesian product c) Intersection	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c 5. The result which operatio a) Join b) Cartesian product	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c 5. The result which operatio a) Join b) Cartesian product c) Intersection d) Set difference	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca
c) Relational algebra d) Query language View Answer Answer: c Explanation: Domain and T be accessed. 4. Theoperation allo a) Select b) Join c) Union d) Intersection View Answer Answer: b Explanation: Join finds the c 5. The result which operation a) Join b) Cartesian product c) Intersection	ws the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.	entries ca

a) Union	
o) Join	
e) Product	
d) Intersect	
View Answer	
Answer: a	
Explanation: Union just combines all the values of relations of same attributes.	
7.77	
7. The most commonly used operation in relational algebra for projecting a set of tuple from a relation is	
a) Join	in the second
b) Projection	
c) Select	
d) Union	
View Answer	
Answer: c	
Explanation: Select is used to view the tuples of the relation with or without some constraints.	
2. p. ministration of the first table of the temporal first first table of the temporal first first table of the temporal first firs	
8. Theoperator takes the results of two queries and returns only rows that appear in both result sets.	
a) Union	
b) Intersect	
c) Difference	
d) Projection	
View Answer	
Answer: b	
Explanation: The union operator gives the result which is the union of two queries and difference is the one where que	ery which is not a part of
second query.	
9. Ais a pictorial depiction of the schema of a database that shows the relations in the database, their attrib	butes, and primary keys
and foreign keys.	
a) Schema diagram	
b) Relational algebra	
c) Database diagram	
d) Schema flow	
View Answer	
Answer: a	
Explanation: None.	
10. Theprovides a set of operations that take one or more relations as input and return a relation as an or	utput.
a) Schematic representation	
p) Relational algebra	
e) Scheme diagram	
d) Relation flow	
View Answer	
Answer: b	
Explanation: None.	

Database Questions and Answers - SQL Basics and SQL Data Definition

3.

CREATE TABLE employee (name VARCHAR, id INTEGER)

- 1. Which one of the following is used to define the structure of the relation, deleting relations and relating schemas?
- a) DML(Data Manipulation Langauge)
- b) DDL(Data Definition Langauge)
- c) Query
- d) Relational Schema

View Answer

Answer: b

Explanation: Data Definition language is the language which performs all the operation in defining structure of relation.

3.

CREATE TABLE employee (name VARCHAR, id INTEGER)

- 2. Which one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?
- a) DML(Data Manipulation Langauge)
- b) DDL(Data Definition Langauge)
- c) Query
- d) Relational Schema

View Answer

Answer: a

Explanation: DML performs the change in the values of the relation.

3.

CREATE TABLE employee (name VARCHAR, id INTEGER

What type of statement is this?

- a) DML
- b) DDL
- c) View
- d) Integrity constraint

View Answer

Answer: b

Explanation: Data Definition language is the language which performs all the operation in defining structure of relation.

3

CREATE TABLE employee (name VARCHAR, id INTEGER)

What type of statement is this?

- a) DML
- b) DDL
- c) View
- d) Integrity constraint

View Answer

Answer: a

Explanation: Select operation just shows the required fields of the relation. So it forms a DML.

3.
CREATE TABLE employee (name VARCHAR, id INTEGER)
5. The basic data type char(n) is alength character string and varchar(n) islength character. a) Fixed, equal b) Equal, variable c) Fixed, variable d) Variable, equal View Answer
Answer: c Explanation: Varchar changes its length accordingly whereas char has a specific length which has to be filled by either letters or spaces.
3. CREATE TABLE employee (name VARCHAR, id INTEGER)
6. An attribute A of datatype varchar(20) has the value "Avi". The attribute B of datatype char(20) has value "Reed". Here attribute A hasspaces and attribute B hasspaces. a) 3, 20 b) 20, 4 c) 20, 20 d) 3, 4 View Answer Answer: a Explanation: Varchar changes its length accordingly whereas char has a specific length which has to be filled by either letters or spaces.
3.
CREATE TABLE employee (name VARCHAR, id INTEGER)
7. To remove a relation from an SQL database, we use thecommand. a) Delete b) Purge c) Remove d) Drop table View Answer
Answer: d Explanation: Drop table deletes the whole structure of the relation .purge removes the table which cannot be obtained again.
3.
CREATE TABLE employee (name VARCHAR, id INTEGER)
This command performs which of the following action? a) Remove relation b) Clear relation entries c) Delete fields d) Delete rows View Answer
Answer: b Explanation: Delete command removes the entries in the table.
3.

CREATE	TABLE	employee	(name	VARCHAR,	id	INTEGER)	
What ty	pe of sta	tement is thi	s?				
a) Quer	у						
b) DMI	_						
c) Relat	ional						
d) DDL	,						
View A	nswer						
Answer	: b						
Explana	tion: The	values are r	nanipula	ated. So it is	a Dl	ML.	
			1				_

3.

CREATE TABLE employee (name VARCHAR, id INTEGER)

- 10. Updates that violate ______ are disallowed.
- a) Integrity constraints
- b) Transaction control
- c) Authorization
- d) DDL constraints

View Answer

Answer: a

Explanation: Integrity constraint has to be maintained in the entries of the relation.



Database Questions and Answers – SQL Queries
Which of those quart will display the the table given shove?
Which of these query will display the the table given above ? a) Select employee from name
b) Select name
c) Select name from employee
d) Select employee
View Answer
Answer: c
Explanation: The field to be displayed is included in select and the table is included in the from clause.
a) All
b) From
c) Distinct
d) Name
View Answer
Answer: c
Explanation: Distinct keyword selects only the entries that are unique.
3. Theclause allows us to select only those rows in the result relation of theclause that satisfy a specified predicate.
a) Where, from
b) From, select
c) Select, from
d) From, where
View Answer
Answer: a
Explanation: Where selects the rows on a particular condition. From gives the relation which involves the operation.
a) Salary*1.1
c) Where
d) Instructor View Answer
VICW / MISWEL
Answer: c
Explanation: Where selects the rows on a particular condition. From gives the relation which involves the operation. Since Instructor is a relation
it has to have from clause.
5. Theclause is used to list the attributes desired in the result of a query.
a) Where b) Select
c) From
d) Distinct
View Answer
Answer: b
Explanation: None
r ··· ··· · · · · · · · · · · · · · · ·
a) Select name,course_id from teaches,instructor where instructor_id=course_id;
b) Select name, course_id from instructor natural join teaches;
c) Select name, course_id from instructor;
d) Select course_id from instructor join teaches;

Answer: b

Explanation: Join clause joins two tables by matching the common column.

Which of the following fields are displayed as output?

- a) Salary, dept_id
- b) Employee
- c) Salary
- d) All the field of employee relation

View Answer

Answer: d

Explanation: Here * is used to select all the fields of the relation.

- a) 1009, 1001, 1018
- b) 1009, 1018
- c) 1001
- d) 1018

View Answer

Answer: d

Explanation: Greater than symbol does not include the given value unlike >=.

- 9. Which of the following statements contains an error?
- a) Select * from emp where empid = 10003;
- b) Select empid from emp where empid = 10006;
- c) Select empid from emp;
- d) Select empid where empid = 1009 and lastname = 'GELLER';

View Answer

Answer: d

Explanation: This query do not have from clause which specifies the relation from which the values has to be selected.

- a) Table
- b) Values
- c) Relation
- d) Field

View Answer

Answer: b

Explanation: Value keyword has to be used to insert the values into the table.

Database	Questions an	d Answers –	Basic	SOLO	perations
Database	Questions an	u Alisweis	Dasic	O LO	peranons

3.
SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';
Which keyword must be used here to rename the field name? a) From b) Rename c) As d) Join View Answer
Answer: c Explanation: As keyword is used to rename.
3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';
In the SQL given above there is an error. Identify the error. a) Dept_name b) Employee c) "Comp Sci" d) From View Answer
Answer: c Explanation: For any string operations single quoted(') must be used to enclose.
3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';
Which one of the following has to be added into the blank to select the dept_name which has Computer Science as its ending string? a) % b) _ c) d) \$ View Answer Answer: a Explanation: The % character matches any substring.
3.
SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';
 4. '' matches any string ofthree characters. '%' matches any string of atthree characters. a) Atleast, Exactly b) Exactly, Atleast

a) Adlanda All
c) Atleast, All
d) All, Exactly View Answer
View Allswei
Answer: b
Explanation: None.
•
3.
SELECT emp name
FROM department
WHERE dept_name LIKE ' Computer Science';
By default, the order by clause lists items inorder.
a) Descending
b) Any
c) Same
d) Ascending
View Answer
Answer: d
Explanation: Specification of descending order is essential but it not for ascending.
3.
SELECT emp_name FROM department
WHERE dept name LIKE ' Computer Science';
To display the salary from greater to smaller and name in ascending order which of the following options should be used?
a) Ascending, Descending
b) Asc, Desc c) Desc, Asc
d) Descending, Ascending
View Answer
View Allswei
Answer: c
Answer: c Explanation: None.
Explanation: None. 3.
Explanation: None. 3. SELECT emp_name
Explanation: None. 3. SELECT emp_name FROM department
Explanation: None. 3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';
<pre>SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';</pre> View Answer
Explanation: None. 3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a
3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some
Explanation: None. 3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a
SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some value and greater than or equal to some other value.
3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some
SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some value and greater than or equal to some other value.
3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some value and greater than or equal to some other value. 3. SELECT emp_name FROM department
3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some value and greater than or equal to some other value. 3. SELECT emp_name
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3. SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science'; View Answer Answer: a Explanation: SQL includes a between comparison operator to simplify where clauses that specify that a value be less than or equal to some value and greater than or equal to some other value. 3. SELECT emp_name FROM department

c) All attributes of teaches are selected on given condition

d) Only the some attributes from instructed and teaches are selected $% \left(1\right) =\left(1\right) \left(1\right$

View Answer
Answer: b Explanation: The asterisk symbol "*" can be usedin the select clause to denote "all attributes."
3.
SELECT emp_name FROM department WHERE dept_name LIKE ' Computer Science';
9. In SQL the spaces at the end of the string are removed byfunction.
a) Upper
b) String
c) Trim d) Lower
View Answer
Answer: c Explanation: The syntax of trim is Trim(s); where s-string.
Explanation. The syntax of unit is Thin(s), where s-sunig.
3.
SELECT emp_name
FROM department WHERE dept_name LIKE ' Computer Science';
10operator is used for appending two strings.
a) &
o) %
l) _ View Answer
Answer: c Explanation: is the concatenation operator.

 The union operation is represented by a) ∩ 	
b) U	
c) –	
d) * View Answer	
Answer: b	
Explanation: Union operator combines the relations.	
2. The intersection operator is used to get thetuples.	
a) Different	
b) Common	
c) All	
d) Repeating View Answer	
view Aliswer	
Answer: b	
Explanation: Intersection operator ignores unique tuples and takes only common one	es.
3. The union operation automaticallyunlike the select clause.	
a) Adds tuples	
b) Eliminates unique tuples c) Adds common tuples	
d) Eliminates duplicate	
View Answer	
Answer: d	
Explanation: None.	
4. If we want to retain all duplicates, we must writein place of union. a) Union all	
a) Chion an	
h) Union some	
b) Union some c) Intersect all	
b) Union some c) Intersect all d) Intersect some	
c) Intersect all d) Intersect some	
c) Intersect all d) Intersect some View Answer	
c) Intersect all d) Intersect some View Answer Answer: a	
c) Intersect all d) Intersect some View Answer Answer: a	
c) Intersect all d) Intersect some View Answer Answer: a Explanation: Union all will combine all the tuples including duplicates.	
c) Intersect all d) Intersect some View Answer Answer: a Explanation: Union all will combine all the tuples including duplicates. This query displays	
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c) Intersect all d) Intersect some View Answer Answer: a Explanation: Union all will combine all the tuples including duplicates. This query displays a) Only tuples from second part b) Only tuples from the first part which has the tuples from second part c) Tuples from both the parts	
c) Intersect all d) Intersect some View Answer Answer: a Explanation: Union all will combine all the tuples including duplicates. This query displays a) Only tuples from second part b) Only tuples from the first part which has the tuples from second part c) Tuples from both the parts d) Tuples from first part which do not have second part	
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c) Intersect all d) Intersect some View Answer Answer: a Explanation: Union all will combine all the tuples including duplicates. This query displays a) Only tuples from second part b) Only tuples from the first part which has the tuples from second part c) Tuples from both the parts	

d) None of the mentioned
View Answer
Answer: a
Explanation:% is used with like and _ is used to fill in the character.
7. The number of attributes in relation is called as its
a) Cardinality b) Degree
c) Tuples
d) Entity
View Answer
VOW THISWEL
Answer: b
Explanation: None.
3clause is an additional filter that is app <mark>lied to the</mark> result.
a) Select
o) Group-by
c) Having
d) Order by
View Answer
Answer: c
Explanation: Having is used to provide additional aggregate filtration to the query.
9joins are SQL server default
a) Outer
) Inner
e) Equi
d) None of the mentioned
View Answer
codeu/itiiabbav/c/. /
Answer: b
Explanation: It is optional to give the inner keyword with the join as it is default.
10. The is essentially used to search for patterns in target string.
10. Theis essentially used to search for patterns in target string. a) Like Predicate
b) Null Predicate
e) In Predicate
1) Out Predicate
View Answer
VEW THISWEI
Answer: a
Explanation: Like predicate matches the string in the given pattern.

 Aindicates an absent 	nt value that may exist but be unkn	nown or that may not exist at all.		
a) Empty tuple	•	·		
b) New value				
c) Null value				
d) Old value				
View Answer				
Answer: c				
Explanation: None.				
2. If the attribute phone number	er is included in the relation all the	e values need not be entered into	the phone number colum	nn. This type of entry
given as				
a) 0				
b) –				
c) Null				
d) Empty space				
View Answer				
A				
Answer: c Explanation: Null is used to rep	present the absence of a value			
Explanation. Ivan is used to rep	present the absence of a value.			
	at removes the tpules of null values		AY'S	/ >
5. In an employee table to inclu	ude the attributes whose value alw	vays have some value which of the	ne following constraint m	ust be used?
a) Null				
b) Not null				
c) Unique				
1) D' ' '				
· ·				
d) Distinct View Answer				
· ·				

b) Unique c) Not null	
d) Distinct	
View Answer	
Answer: d Explanation: Unique is a constraint.	
2. palataon. Onique 15 à constante.	
Some of these insert statements will produce an error. Identify the statement.	
a) Insert into employee values (1005,Rach,0);	
b) Insert into employee values (1002,Joey,335);	
c) Insert into employee values (1007,Ross,); d) None of the mentioned	
View Answer	
VIEW Allower	
Answer: c	
Explanation: Not null constraint is specified which means sone value (can include 0 also) should be given.	
0.77	
8. The primary key must be	
a) Unique b) Not null	
c) Both Unique and Not null	
d) Either Unique or Not null	
View Answer	
Answer: c	
Explanation: Primary key must satisfy unique and not null condition for sure.	
Why does this statement cause an error when QUANTITY values are null?	
a) The expression attempts to divide by a null value	
b) The data types in the conversion function are incompatible	
c) The character string none should be enclosed in single quotes ('')	
d) A null value used in an expression cannot be converted to an actual value	
View Answer	
A TOUDLITTIIIMAAAA 3/	
Answer: a Explanation: The expression attempts to divide by a null value is erroneous in sql.	
Explanation. The expression attempts to divide by a full value is enoneous in sqi.	
10. The result ofunknown is unknown.	
a) Xor	
b) Or	
c) And	
d) Not	
View Answer	5
Answer: d	
Explanation: Since unknown does not hold any value the value cannot have a reverse value.	

$\label{lem:partial-decomposition} \textbf{Database Questions and Answers} - \textbf{Aggregate Functions and Nested Subqueries} - 1$

3.
SELECT COUNT (ID) FROM teaches WHERE semester = 'Spring' AND YEAR = 2010;
1. Aggregate functions are functions that take aas input and return a single value. a) Collection of values b) Single value c) Aggregate value d) Both Collection of values & Single value View Answer Answer: a Explanation: None.
SELECT COUNT (ID) FROM teaches WHERE semester = 'Spring' AND YEAR = 2010;
Which of the following should be used to find the mean of the salary? a) Mean(salary) b) Avg(salary) c) Sum(salary) d) Count(salary) View Answer
Answer: b Explanation: Avg() is used to find the mean of the values. 3. SELECT COUNT (ID) FROM teaches WHERE semester = 'Spring' AND YEAR = 2010;
If we do want to eliminate duplicates, we use the keywordin the aggregate expression. a) Distinct b) Count c) Avg d) Primary key View Answer Answer: a
Explanation: Distinct keyword is used to select only unique items from the relation.
3. SELECT COUNT (ID) FROM teaches WHERE semester = 'Spring' AND YEAR = 2010; 4. All aggregate functions except ignore null values in their input collection. a) Count(attribute) b) Count(*)

c) Avg	
d) Sum	
View Answer	
Answer: b	
Explanation: * is used to select all values including null.	
3.	
SELECT COUNT (ID)	
FROM teaches	
WHERE semester = 'Spring' AND YEAR = 2010;	
5. A Boolean data type that can take values true, false, and	
a) 1	
b) 0	
c) Null	
d) Unknown	
View Answer	
Answer: d	
Explanation: Unknown values do not take null value but it is not known.	
3.	
SELECT COUNT (ID) FROM teaches	
WHERE semester = 'Spring' AND YEAR = 2010;	
6. Theconnective tests for set membership, where the set is a collection of values produced by a select clause. T	The _connective tests
for the absence of set membership.	
a) Or, in	
b) Not in, in	
c) In, not in	
d) In, or	
View Answer	
Answer: c	
Explanation: In checks, if the query has the value but not in checks if it does not have the value.	
3.	
S.	
SELECT COUNT (ID)	
FROM teaches	
WHERE semester = 'Spring' AND YEAR = 2010;	
View Answer	
Answer: a	
Explanation: None.	
3.	
SELECT COUNT (ID)	
FROM teaches	
WHERE semester = 'Spring' AND YEAR = 2010;	
8. The phrase "greater than at least one" is represented in SQL by	
a) < all	
b) < some	
c) > all	
d) > some	

Vior	Answer

Answer: d

Explanation: >some takes at lest one value above it .

3.

```
SELECT COUNT (_____ ID)
FROM teaches
WHERE semester = 'Spring' AND YEAR = 2010;
```

View Answer Answer: a

Explanation: None.

3.

```
SELECT COUNT (_____ ID)
FROM teaches
WHERE semester = 'Spring' AND YEAR = 2010;
```

10. We can test for the nonexistence of tuples in a subquery by using the _____construct.

<CODEWITHARRA

- a) Not exist
- b) Not exists
- c) Exists
- d) Exist

View Answer

Answer: b

Explanation: Exists is used to check for the existence of tuples.

Database Questions and Answers – Aggregate Functions and Nested Subqueries – 2

- a) Avg(salary) should not be selected
- b) Dept_id should not be used in group by clause
- c) Misplaced group by clause
- d) Group by clause is not valid in this query

View Answer

Answer: b

Explanation: Any attribute that is not present in the group by clause must appear only inside an aggregate function if it appears in the select clause, otherwise the query is treated as erroneous.

- 2. SQL applies predicates in the _____clause after groups have been formed, so aggregate functions may be used.
- a) Group by
- b) With
- c) Where
- d) Having

View Answer

Answer h

Explanation: The with clause provides away of defining a temporary relation whose definition is available only to the query in which the with clause occurs.

- 3. Aggregate functions can be used in the select list or the_____clause of a select statement or subquery. They cannot be used in a _____clause.
- a) Where, having
- b) Having, where
- c) Group by, having
- d) Group by, where

View Answer

Answer h

Explanation: To include aggregate functions having clause must be included after where.

- 4. The _____keyword is used to access attributes of preceding tables or subqueries in the from clause.
- a) In
- b) Lateral
- c) Having
- d) With

View Answer

Answer: b

Explanation:

Without the lateral clause, the subquery cannot access the correlation variable

I1 from the outer query.

- 5. Which of the following creates a temporary relation for the query on which it is defined?
- a) With
- b) From
- c) Where

d) Select

View Answer

Answer: a

Explanation: The with clause provides a way of defining a temporary relation whose definition is available only to the query in which the with clause occurs.

In the query given above which one of the following is a temporary relation?

- a) Budget
- b) Department
- c) Value
- d) Max_budget

View Answer

Answer: d

Explanation: With clause creates a temporary relation.

- 7. Subqueries cannot:
- a) Use group by or group functions
- b) Retrieve data from a table different from the one in the outer query
- c) Join tables
- d) Appear in select, update, delete, insert statements.

View Answer

Answer: c

Explanation: None.

- 8. Which of the following is not an aggregate function?
- a) Avg
- b) Sum
- c) With
- d) Min

View Answer

Answer: c

Explanation: With is used to create temporary relation and its not an aggregate function.

- 9. The EXISTS keyword will be true if:
- a) Any row in the subquery meets the condition only
- b) All rows in the subquery fail the condition only
- c) Both of these two conditions are met
- d) Neither of these two conditions is met

View Answer

Answer: a

Explanation: EXISTS keyword checks for existance of a condition.

- 10. How can you find rows that do not match some specified condition?
- a) EXISTS
- b) Double use of NOT EXISTS
- c) NOT EXISTS
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

1. A Delete command operates onrelation.	
a) One	
b) Two	
c) Several	
d) Null	
View Answer	
Answer: a	
Explanation: Delete can delete from only one table at a time.	
The above command	
a) Deletes a particular tuple from the relation	
b) Deletes the relation	
c) Clears all entries from the relation	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: Here P gives the condition for deleting specific rows.	
d) Delete from instructor; View Answer Answer: d Explanation: Absence of condition deletes all rows. d) Not possible View Answer Answer: b Explanation: Using select statement in insert will include rows which are the result of the selection. d) None of the mentioned View Answer	Y'S/>
Answer: c	
Explanation: The query must include building=watson condition to filter the tuples.	
Fill in with correct keyword to update the instructor relation. a) Where	
b) Set	
c) In	
d) Select	
View Answer	
Answer: b	

 a) Multiple queries b) Sub queries c) Update d) Scalar subqueries
b) Sub queries c) Update
c) Update
View Answer
Answer: d
Explanation: None.
8. The problem of ordering the update in multiple updates is avoided using
a) Set
b) Where
c) Case
d) When
View Answer
Answer: c
Explanation: The case statements can add the order of updating tuples.
d) All of the mentioned
View Answer
Answer: b
Explanation: None.
Answer: a Explanation: The order of the two update statements is important. If we changed the order of the two statements, an instructor with a salar under \$100,000 would receive an over 8 percent raise. SQL provides a case construct that we can use to perform both the updates with single update statement, avoiding the problem with the order of updates.
<codewitharray's></codewitharray's>

Database Questions and Answers - Join Expressions

c)
 SELECT *
 FROM student LEFT OUTER JOIN takes USING (ID);

- 1. The ____condition allows a general predicate over the relations being joined.
- a) On
- b) Using
- c) Set
- d) Where

View Answer

Answer: a

Explanation: On gives the condition for the join expression.

SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);

- 2. Which of the join operations do not preserve non matched tuples?
- a) Left outer join
- b) Right outer join
- c) Inner join
- d) Natural join

View Answer

Answer: c

c)

Explanation: INNER JOIN: Returns all rows when there is at least one match in BOTH tables.

SELECT *

SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);

d) None of the mentioned

View Answer

Answer: a

Explanation: Join can be replaced by inner join.

- 4. What type of join is needed when you wish to include rows that do not have matching values?
- a) Equi-join
- b) Natural join
- c) Outer join
- d) All of the mentioned

View Answer

Answer: c

Explanation: An outer join does not require each record in the two joined tables to have a matching record...

- 5. How many tables may be included with a join?
- a) One
- b) Two
- c) Three
- d) All of the mentioned

Answer: d

Explanation: Join can combine multiple tables.

c)

```
SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);
```

- 6. Which are the join types in join condition:
- a) Cross join
- b) Natural join
- c) Join with USING clause
- d) All of the mentioned

View Answer

Answer: d

Explanation: There are totally four join types in SQL.

c)

```
SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);
```

- 7. How many join types in join condition:
- a) 2
- b) 3
- c) 4

d) 5

View Answer

Answer: d

Explanation: Types are inner join, left outer join, right outer join, full join, cross join.

c)

```
SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);
```

- 8. Which join refers to join records from the right table that have no matching key in the left table are include in the result set:
- a) Left outer join
- b) Right outer join
- c) Full outer join
- d) Half outer join

View Answer

Answer: b

 $Explanation: RIGHT\ OUTER\ JOIN:\ Return\ all\ rows\ from\ the\ right\ table\ and\ the\ matched\ rows\ from\ the\ left\ table.$

```
SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);

9. The operation which is not considered a basic operation of relational algebra is a) Join
b) Selection
```

d) Cross product View Answer

c) Union

c)

c)

Answer: a Explanation: None.

Explanation: None.

SELECT *
FROM student LEFT OUTER JOIN takes USING (ID);

10. In SQL the statement select * from R, S is equivalent to

a) Select * from R natural join S

b) Select * from R cross join S

c) Select * from R union join S

d) Select * from R inner join S

View Answer

Answer: b Explanation: None.



Database Questions and Answers - Views

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

- 1. Which of the following creates a virtual relation for storing the query?
- a) Function
- b) View
- c) Procedure
- d) None of the mentioned

View Answer

Answer: b

Explanation: Any such relation that is not part of the logical model, but is made visible to a user as a virtual relation, is called a view.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

- 2. Which of the following is the syntax for views where v is view name?
- a) Create view v as "query name";
- b) Create "query expression" as view;
- c) Create view v as "query expression";
- d) Create view "query expression";

View Answer

Answer: c

Explanation: <query expression> is any legal query expression. The view name is represented by v.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

Here the tuples are selected from the view. Which one denotes the view.

- a) Course_id
- b) Watson
- c) Building
- d) physics_fall_2009

View Answer

Answer: c

Explanation: View names may appear in a query any place where a relation name may appear.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

- 4. Materialised views make sure that
- a) View definition is kept stable
- b) View definition is kept up-to-date

- c) View definition is verified for error
- d) View is deleted after specified time

Answer: b

Explanation: None.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

- 5. Updating the value of the view
- a) Will affect the relation from which it is defined
- b) Will not change the view definition
- c) Will not affect the relation from which it is defined
- d) Cannot determine

View Answer

Answer: a

Explanation: None.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

- 6. SQL view is said to be updatable (that is, inserts, updates or deletes can be applied on the view) if which of the following conditions are satisfied by the query defining the view?
- a) The from clause has only one database relation
- b) The query does not have a group by or having clause
- c) The select clause contains only attribute names of the relation and does not have any expressions, aggregates, or distinct specification
- d) All of the mentioned

View Answer

Answer: d

Explanation: All of the conditions must be satisfied to update the view in sql.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

- 7. Which of the following is used at the end of the view to reject the tuples which do not satisfy the condition in where clause?
- a) With
- b) Check
- c) With check
- d) All of the mentioned

View Answer

Answer: c

Explanation: Views can be defined with a with check option clause at the end of the view definition; then, if a tuple inserted into the view does not satisfy the view's where clause condition, the insertion is rejected by the database system.

3

```
SELECT course_id
```

```
FROM physics_fall_2009
WHERE building= 'Watson';
```

Answer: a

Explanation: None.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

If we insert tuple into the view as insert into instructor info values ('69987', 'White', 'Taylor');

What will be the values of the other attributes in instructor and department relations?

- a) Default value
- b) Null
- c) Error statement
- d) 0

View Answer

Answer: b

Explanation: The values take null if there is no constraint in the attribute else it is an Erroneous statement.

3.

```
SELECT course_id
FROM physics_fall_2009
WHERE building= 'Watson';
```

Find the error in this query.

- a) Instructor
- b) Select
- c) View ...as
- d) None of the mentioned

View Answer

Answer: d

Explanation: Syntax is – create view v as <query expression>;.

1 4	
1. A a) Transaction	_consists of a sequence of query and/or update statements.
b) Commit	
c) Rollback	
d) Flashback	
View Answer	
Answer: a	
	unsaction is a set of operation until commit.
2. Which of the f	following makes the transaction permanent in the database?
a) View	
o) Commit	
c) Rollback	
l) Flashback	
View Answer	
Answer: b	
Explanation: Cor	mmit work commits the current transaction.
	do the work of tran <mark>saction</mark> after last commit which one should be used?
a) View	
o) Commit	
c) Rollback d) Flashback	
View Answer	
VICW THIS WEI	
Answer: c	
	ollback work causes the current transaction to be rolled back; that is, it undoes all the updates performed by the SQL stater
in the transaction	on.
What does Rollb	back do?
	ransactions before commit
o) Clears all tran	
	ansactions before commit
d) No action	
View Answer	
Answer: d	
	nce a transaction has executed commit work, its effects can no longer be undone by rollback work.
	ice a transaction has executed commit work, its effects can no longer be undone by folloack work.
5. In case of any	shut down during transaction before commit which of the following statement is done automatically?
a) View	
o) Commit	
c) Rollback	
d) Flashback	
View Answer	
Answer: c	
	nce a transaction has executed commit work, its effects can no longer be undone by rollback work.
Evalanation: One	

b) Atomic
c) Flashback
d) Retain
View Answer
Answer: b
Explanation: By atomic, either all the effects of the transaction are reflected in the database, or none are (after rollback).
7. Transaction processing is associated with everything below except
a) Conforming an action or triggering a response
b) Producing detail summary or exception report
c) Recording a business activity
d) Maintaining a data
View Answer
A
Answer: a
Explanation: None.
8. A transaction completes its execution is said to be
a) Committed
b) Aborted
c) Rolled back
d) Failed
View Answer
Answer: a
Explanation: A complete transaction always commits.
9. Which of the following is used to get back all the transactions back after rollback?
a) Commit
b) Rollback
c) Flashback
d) Redo
View Answer
MINDUUL III III III AAAA I U
Answer: c
Explanation: None.
10will undo all statements up to commit?
a) Transaction
b) Flashback
c) Rollback
d) Abort
View Answer
Answer: c
Explanation: Flashback will undo all the statements and Abort will terminate the operation.
2. p. m.

Database Questions and Answers – Integrity Constraints

3.

```
CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQUENTED INSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

- 1. To include integrity constraint in an existing relation use :
- a) Create table
- b) Modify table
- c) Alter table
- d) Drop table

View Answer

Answer: c

Explanation: SYNTAX – alter table table-name add constraint, where constraint can be any constraint on the relation.

3.

```
CREATE TABLE Employee (Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

- 2. Which of the following is not an integrity constraint?
- a) Not null
- b) Positive
- c) Unique
- d) Check 'predicate'

View Answer

Answer: b

Explanation: Positive is a value and not a constraint.

3.

```
CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQUINSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

What will be the result of the query?

- a) All statements executed
- b) Error in create statement
- c) Error in insert into Employee values(1006, Ted, Finance,);
- d) Error in insert into Employee values(1008,Ross,Sales,20000);

View Answer

Answer: d

Explanation: The not null specification prohibits the insertion of a null value for the attribute.

The unique specification says that no two tuples in the relation can be equal on all the listed attributes.

3

```
CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20) , dept_name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

Inorder to ensure that the value of budget is non-negative which of the following should be used? a) Check(budget>0) b) Check(budget<0) c) Alter(budget>0) d) Alter(budget<0) View Answer Answer: a Explanation: A common use of the check clause is to ensure that attribute values satisfy specified conditions, in effect creating a powerful type system. 3 CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000) INSERT INTO Employee VALUES(1006, Ted, Finance,); INSERT INTO Employee VALUES(1002, Rita, Sales, 20000); 5. Foreign key is the one in which the ______of one relation is referenced in another relation. a) Foreign key b) Primary key c) References d) Check constraint View Answer Explanation: The foreign-key declaration specifies that for each course tuple, the department name specified in the tuple must exist in the department relation. CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20) , dept_name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000) INSERT INTO Employee VALUES(1006, Ted, Finance,); INSERT INTO Employee VALUES(1002,Rita,Sales,20000); Which of the following is used to delete the entries in the referenced table when the tuple is deleted in course table? a) Delete b) Delete cascade c) Set null d) All of the mentioned View Answer Answer: b Explanation: The delete "cascades" to the course relation, deletes the tuple that refers to the department that was deleted. 3. CREATE TABLE Employee (Emp id NUMERIC NOT NULL, Name VARCHAR(20), dept name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000) INSERT INTO Employee VALUES(1006, Ted, Finance,); INSERT INTO Employee VALUES(1002, Rita, Sales, 20000); 7. Domain constraints, functional dependency and referential integrity are special forms of

a) Foreign keyb) Primary keyc) Assertion

Answer: c

d) Referential constraint View Answer Explanation: An assertion is a predicate expressing a condition we wish the database to always satisfy.

3.

```
CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

- 8. Which of the following is the right syntax for the assertion?
- a) Create assertion 'assertion-name' check 'predicate';
- b) Create assertion check 'predicate' 'assertion-name';
- c) Create assertions 'predicates';
- d) All of the mentioned

View Answer

Answer: a

Explanation: None.

3

```
CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQU INSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

- 9. Data integrity constraints are used to:
- a) Control who is allowed access to the data
- b) Ensure that duplicate records are not entered into the table
- c) Improve the quality of data entered for a specific property (i.e., table column)
- d) Prevent users from changing the values stored in the table

View Answer

Answer: c

Explanation: None.

3.

```
CREATE TABLE Employee(Emp_id NUMERIC NOT NULL, Name VARCHAR(20), dept_name VARCHAR(20), Salary NUMERIC UNIQUENTED INSERT INTO Employee VALUES(1002, Ross, CSE, 10000)
INSERT INTO Employee VALUES(1006, Ted, Finance, );
INSERT INTO Employee VALUES(1002, Rita, Sales, 20000);
```

- 10. Which of the following can be addressed by enforcing a referential integrity constraint?
- a) All phone numbers must include the area code
- b) Certain fields are required (such as the email address, or phone number) before the record is accepted
- c) Information on the customer must be known before anything can be sold to that customer
- d) When entering an order quantity, the user must input a number and not some text (i.e., 12 rather than 'a dozen')

View Answer

Answer: c

Explanation: The information can be referred to and obtained.

Database Questions and Answers – SQL Data Types and Schemas	
. Dates must be specified in the format	
n) mm/dd/yy	
o) yyyy/mm/dd	
dd/mm/yy	
I) yy/dd/mm	
View Answer	
Answer: b	
Explanation: yyyy/mm/dd is the default format in sql.	
1 3333	
2. Aon an attribute of a relation is a data structure that allows the database system to find those tuples in the relation the	at have a
pecified value for that attribute efficiently, without scanning through all the tuples of the relation.	
) Index	
) Reference	
e) Assertion	
1) Timestamp	
View Answer	
Answer: a	
Explanation: Index is the reference to the tuples in a relation.	
Here which one denotes the relation for which index is created?	
) StudentID_index	
o) ID c) StudentID	
l) Student	
View Answer	
Answer: d	
Explanation: The statement creates an index named studentID index on the attribute ID of the relation student.	
A CI IIIIF WITHOWKO T ST	
Which of the following is used to store movie and image files?	
)) Clob	
) Blob	
e) Binary	
I) Image	
View Answer	
Answer: b	£
Explanation: SQL therefore provides large-object data types for character data (clob) and binary data (blob). The letters "lob" in the lob "lob" in the letters "lob" in the letters "lob" in the letters "lob" in the lob "lob" in the lob "lob" in the lob "lob" in the letters "lob" in the lob "lob" in the lo	iese data
ypes stand for Large Object.	
The constant of the first seem by constant constant.	
5. The user defined data type can be created using	
Create datatype	
o) Create data c) Create definetype	
l) Create type	
View Answer	
Answer: d	
Explanation: The create type clause can be used to define new types. Syntax: create type Dollars as numeric(12,2) final;.	

a) Cast	
b) Drop type	
c) Alter type	
d) Convert	
View Answer	
Answer: a	
Explanation: Example of cast :cast (dep	partment.budget to numeric(12,2)). SQL provides drop type and alter type clauses to drop or modify
types that have been created earlier.	
In order to angure that an instructor's so	alary domain allows only values greater than a specified value use:
a) Value>=30000.00	nary domain anows only values greater than a specified value use.
b) Not null;	
c) Check(value >= 29000.00);	
d) Check(value)	
View Answer	
Answer: c	
Explanation: Check(value 'condition') is	is the <mark>syntax.</mark>
8. Which of the following closely resem-	nbles Create view?
a) Create tablelike	
b) Create table as	
c) With data	
d) Create view as	
View Answer	
Answer: b	
Explanation: The 'create table as' st	statement closely resembles the create view statement and both are defined by using queries. The main
	ble are set when the table is created, whereas the contents of a view always reflect the current query
result.	
9. In contemporary databases, the top l	level of the hierarchy consists ofeach of which can contain
a) Catalogs, schemas	rwiindraat 3/2
b) Schemas, catalogs c) Environment, schemas	
d) Schemas, Environment	
View Answer	
View Answer	
View Answer Answer: a	
Answer: a Explanation: None.	
Answer: a Explanation: None. 10. Which of the following statements of the following s	creates a new table temp instructor that has the same schema as an instructor.
Answer: a Explanation: None. 10. Which of the following statements of a) create table temp_instructor;	
Answer: a Explanation: None. 10. Which of the following statements a) create table temp_instructor; b) Create table temp_instructor like ins	
Answer: a Explanation: None. 10. Which of the following statements of a) create table temp_instructor; b) Create table temp_instructor like ins c) Create Table as temp_instructor;	
Answer: a Explanation: None. 10. Which of the following statements of a) create table temp_instructor; b) Create table temp_instructor like insc) Create Table as temp_instructor; d) Create table like temp_instructor;	
Answer: a Explanation: None. 10. Which of the following statements of a) create table temp_instructor; b) Create table temp_instructor like insic) Create Table as temp_instructor; d) Create table like temp_instructor; View Answer	
Answer: a Explanation: None.	

Database Questions and Answers – Authorizations

- 1. The database administrator who authorizes all the new users, modifies the database and takes grants privilege is
- a) Super user
- b) Administrator
- c) Operator of operating system
- d) All of the mentioned

View Answer

Answer: d

Explanation: The authorizations provided by the administrator to the user is a privilege.

View Answer

Answer: a

Explanation: The privilege list allows the granting of several privileges in one command.

- 3. Which of the following is used to provide privilege to only a particular attribute?
- a) Grant select on employee to Amit
- b) Grant update(budget) on department to Raj
- c) Grant update(budget,salary,Rate) on department to Raj
- d) Grant delete to Amit

View Answer

Answer: b

Explanation: This grant statement gives user Raj update authorization on the budget attribute of the department relation.

- 4. Which of the following statement is used to remove the privilege from the user Amir?
- a) Remove update on department from Amir
- b) Revoke update on employee from Amir
- c) Delete select on department from Raj
- d) Grant update on employee from Amir

View Answer

Answer: b

Explanation: revoke on from;

d) All of the mentioned

View Answer

Answer: c

Explanation: The role is first created and the authorization is given on relation takes to the role.

- 6. Which of the following is true regarding views?
- a) The user who creates a view cannot be given update authorization on a view without having update authorization on the relations used to define the view
- b) The user who creates a view cannot be given update authorization on a view without having update authorization on the relations used to define the view
- c) If a user creates a view on which no authorization can be granted, the system will allow the view creation request
- d) A user who creates a view receives all privileges on that view

View Answer

Answer: c

Explanation: A user who creates a view does not necessarily receive all privileges on that view.

7. If we wish to grant a privilege and to allow the recipient to pass the privilege on to other users, we append the ______clause to the

appropriate grant command.

- a) With grant
- b) Grant user
- c) Grant pass privelege
- d) With grant option

View Answer

Answer: d

Explanation: None.

- 8. In authorization graph, if DBA provides authorization to u1 which inturn gives to u2 which of the following is correct?
- a) If DBA revokes authorization from u1 then u2 authorization is also revoked
- b) If u1 revokes authorization from u2 then u2 authorization is revoked
- c) If DBA & u1 revokes authorization from u1 then u2 authorization is also revoked
- d) If u2 revokes authorization then u1 authorization is revoked

View Answer

Answer: c

Explanation: A user has an authorization if and only if there is a path from the root of the authorization graph down to the node representing the user.

- 9. Which of the following is used to avoid cascading of authorizations from the user?
- a) Granted by current role
- b) Revoke select on department from Amit, Satoshi restrict;
- c) Revoke grant option for select on department from Amit;
- d) Revoke select on department from Amit, Satoshi cascade;

View Answer

Answer: b

Explanation: The revoke statement may specify restrict in order to prevent cascading revocation. The keyword cascade can be used instead of restrict to indicate that revocation should cascade.

- 10. The granting and revoking of roles by the user may cause some confusions when that user role is revoked. To overcome the above situation
- a) The privilege must be granted only by roles
- b) The privilege is granted by roles and users
- c) The user role cannot be removed once given
- d) By restricting the user access to the roles

View Answer

Answer: a

Explanation: The current role associated with a session can be set by executing set role name. The specified role must have been granted to the user, else the set role statement fails.

Database Questions and Answers - Access SQL From a Programming Language

Database Questions and Answers - Access SQL From a Frogramming Language
1. Which of the following is used to access the database server at the time of executing the program and get the data from the server accordingly?
a) Embedded SQL
b) Dynamic SQL
c) SQL declarations
d) SQL data analysis
View Answer
Answer: b
Explanation: Embedded SQL, the SQL statements are identified at compile time using a preprocessor. The preprocessor submits the SQL
statements to the database system for precompilation and optimization; then it replaces the SQL statements in the application program with
appropriate code and function calls before invoking the programming-language compiler.
2. Which of the following header must be included in java program to establish database connectivity using JDBC?
a) Import java.sql.*;
b) Import java.sql.odbc.jdbc.*;
c) Import java.jdbc.*;
d) Import java.sql.jdbc.*;
View Answer
VIEW Allowel
Answer: a
Explanation: The Java program must import java.sql.*, which contains the interface definitions for the functionality provided by JDBC.
The state of the s
3. DriverManager.getConnection(,)
What are the two parameters that are included?
a) URL or machine name where server runs, Password, User ID
b) URL or machine name where server runs, User ID, Password
c) User ID, Password, URL or machine name where server runs
d) Password, URL or machine name where server runs, User ID
View Answer
TOW THIS WOL
Answer: b
Explanation: The database must be opened first in order to perform any operations for which this get connection method is used.
4. Which of the following invokes functions in sql?
a) Prepared Statements
b) Connection statement
c) Callable statements
d) All of the mentioned
View Answer
VICW Allowel
Answer: c
Explanation: JDBC provides a Callable Statement interface that allows invocation of SQL stored procedures and functions.
5. Which of the following function is used to find the column count of the particular resultset?
a) getMetaData()
b) Metadata()
c) getColumn()
, <u>, , , , , , , , , , , , , , , , , , </u>

d) get Count() View Answer

Explanation: The interface ResultSet

Answer: a

has a method, getMetaData(), that returns a ResultSetMetaData object that contains metadata about the result set. ResultSetMetaData, in turn, has methods to find metadata information, such as the number of columns in the result, the name of a specified column, or the type of a specified column.

- 6. Which of the following is a following statement is a prepared statements?
- a) Insert into department values(?,?,?)
- b) Insert into department values (x,x,x)
- c) SQLSetConnectOption(conn, SQL AUTOCOMMIT, 0)
- d) SQLTransact(conn, SQL ROLLBACK)

View Answer

Answer: a

Explanation:? is used as a placeholder whose value can be provided later.

- 7. Which of the following is used as the embedded SQL in COBOL?
- a) EXEC SQL <embedded SQL statement >;
- b) EXEC SQL <embedded SQL statement > END-EXEC
- c) EXEC SQL <embedded SQL statement >
- d) EXEC SQL <embedded SQL statement > END EXEC;

View Answer

Answer: b

Explanation: EXEC SQL <embedded SQL statement >; is normally in C.

- 8. Which of the following is used to distinguish the variables in SQL from the host language variables?
- a) .
- b) –
- c):
- d),

View Answer

Answer: b Explanation:

Explanation:

EXEC SQL

DECLARE c cursor FOR

SELECT ID, name

FROM student

WHERE tot cred > :credit amount;

d) EXEC SQL update END-SQL

View Answer

Answer: c

Explanation: The SQL can be terminated by; to terminate the sentence.

- 10. Which of the following is used to access large objects from a database?
- a) setBlob()
- b) getBlob()
- c) getClob()
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

Database Questions and Answers - Functions and Procedures

Find the error in the the above statement.

- a) Return type missing
- b) Dept_name is mismatched
- c) Reference relation is not mentioned
- d) All of the mentioned

View Answer

Answer: a

Explanation: Return integer should be given after create function for this particular function.

View Answer

Answer: b

Explanation: The count of the dept_name must be checked for the displaying from instructor relation.

- 3. Which of the following is used to input the entry and give the result in a variable in a procedure?
- a) Put and get
- b) Get and put
- c) Out and In
- d) In and out

View Answer

Answer: d

Explanation: Create procedure dept count proc(in dept name varchar(20), out d count integer). Here in and out refers to input and result of procedure.

View Answer

Answer: b

Explanation: Here the 'Physics' is in variable and d_count is out variable.

- 5. The format for compound statement is
- a) Begin end
- b) Begin atomic..... end
- c) Begin repeat
- d) Both Begin end and Begin atomic...... end

View Answer

Answer: d

Explanation: A compound statement is of the form begin \dots end, and it may contain multiple SQL statements between the begin and the end. A compound statement of the form begin atomic \dots end ensures that all the statements contained within it are executed as a single transaction.

Fill in the correct option:

- a) While Condition
- b) Until variable
- c) Until boolean expression
- d) Until 0

View Answer

Answer: c

Explanation: None.

View Answer

Answer: a

Explanation: The conditional statements supported by SQL include if-then-else statements by using this syntax. elif and elsif are not allowed.

8. A stored procedure in SQL is a		
a) Block of functions		
b) Group of Transact-SQL statements compiled into a single execution plan.		
c) Group of distinct SQL statements.		
d) None of the mentioned		
View Answer		
Answer: b		
Explanation: If it an atomic statement then the statements are in single transaction		
Explanation. If it all atomic statement then the statements are in single transaction	ıı.	
O Townson standard and allowed in the database		
Temporary stored procedures are stored indatabase. Master		
b) Model		
c) User specific		
d) Tempdb		
View Answer		
VICW Allowed		
Answer: d		
Explanation: None.		
The above statements are used for		
a) Calling procedures		
b) Handling Exception		
c) Handling procedures		
d) All of the mentioned		

Answer: b

View Answer

Explanation: The SQL procedural language also supports the signaling of exception conditions, and declaring of handlers that can handle the exception, as in this code.



b) On, for insert c) For, insert d) None of the mentioned View Answer Answer: b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 4. What are the after triggers? a) Triggers generated after a particular operation b) These triggers run after an insert, update or delete on a table c) These triggers run after an insert, views, update or delete on a table d) All of the mentioned View Answer: b Explanation: AFTER TRIGGERS can be classified further into three types as: AFTER INSERT Trigger, AFTER UPDATE Trigger, AFTER DELETE Trigger. 5. The variables in the triggers are declared using a) - b) @ c) / d) /@ View Answer Answer: b	Database Que	estions and Answers – Triggers
Divide procedures		
b) Triggers c) Functions d) None of the mentioned View Answer Answer: b Explanation: Triggers are automatically generated when a particular operation takes place. 2. Triggers are supported in d) Delete b) Update c) View d) All of the mentioned View Answer Answer: b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 3. The CREATE TRIGGER statement is used to create the trigger. THEclause specifies the table name on which the trigger is to be attached. The specifies that this is an AFTER INSERT trigger. d) Orn for insert e) For, insert d) None of the mentioned View Answer b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 4. What are the after triggers? 6. The ser triggers run after an insert, update or delete on a table e) These triggers run after an insert, update or delete on a table d) All of the mentioned View Answer Answer: b Explanation: AFTER TRIGGERS can be classified further into three types as: AFTER INSERT Trigger, AFTER UPDATE Trigger, AFTER DELETE Trigger. 5. The variables in the triggers are declared using e) — e) (P) (View Answer Answer: b Explanation: AFTER TRIGGERS can be classified further into three types as: AFTER INSERT Trigger, AFTER UPDATE Trigger, AFTER DELETE Trigger.	•	
(a) None of the mentioned (b) None of the mentioned (c) None of the triggers (c) None of the mentioned (c) None of the triggers (c) None of the mentioned (c) None of the triggers (c) None of the triggers (c) None of the mentioned (c) None of the triggers (c) None of the mentioned (c) None of the triggers (c) None of the triggers (c) None of the triggers (c) None of the mentioned (c) None of the triggers (c) None of the trigger (c) None of the t		
d) None of the mentioned View Answer Explanation: Triggers are supported in no Delete Diplate: View Answer by Caphanation: Triggers are supported in no Delete Diplate: View Answer Answer: b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 3. The CREATE TRIGGER statement is used to create the trigger. THE _clause specifies the table name on which the trigger is to be attached. Thespecifies that this is an AFTER INSERT trigger. a) for insert, on b) On, for insert D) On, for insert D) On, for insert D) For, insert D) On, for insert D) For, insert D) On, for insert D) For, insert		
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Answer: b Explanation: Triggers are automatically generated when a particular operation takes place. 2. Triggers are supported in 10 Delete 10 Update 20 Views 31. Allof the mentioned View Answer Answer: c Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 3. The CREATE TRIGGER statement is used to create the trigger. THE _clause specifies the table name on which the trigger is to be attached. Thespecifies that this is an AFTER INSERT trigger. 1) for insert, on 1) for insert, on 2) One, for insert 2) For, insert 3) None of the mentioned View Answer: b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 4. What are the after triggers? 1) Triggers generated after a particular operation 1) These triggers run after an insert, update or delete on a table 2) These triggers run after an insert, views, update or delete on a table 3) Allof the mentioned View Answer Answer: b Explanation: AFTER TRIGGERS can be classified further into three types as: AFTER INSERT Trigger, AFTER UPDATE Trigger, AFTER DELETE Trigger. 5. The variables in the triggers are declared using 1) © 2) / 3) // @ 4) // @ 4) // @ 4) // @ 5) // @ 6) // @	*	entioned
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2) Update 3) Views 3) Views 3) Nalof the mentioned View Answer: C Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 3. The CREATE TRIGGER statement is used to create the trigger. THE _clause specifies the table name on which the trigger is to be attached. Thespecifies that this is an AFTER INSERT trigger. 3) On, for insert, on 4) On, for insert 5) For, insert 6) None of the mentioned View Answer Answer: b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 4. What are the after triggers? 4) Triggers generated after a particular operation 5) These triggers run after an insert, update or delete on a table 4) All of the mentioned View Answer Answer: b Explanation: AFTER TRIGGERS can be classified further into three types as: AFTER INSERT Trigger, AFTER UPDATE Trigger, AFTER DELETE Trigger. 5. The variables in the triggers are declared using 4) — 5) @ 5) // 6) // 6) // 6 View Answer Answer: b		oportea in
1) All of the mentioned View Answer Answer: c Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 3. The CREATE TRIGGER statement is used to create the trigger. THE _clause specifies the table name on which the trigger is to be attached. Thespecifies that this is an AFTER INSERT trigger. 1) For insert, on 1) On, for insert 1) None of the mentioned View Answer: b Explanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 4. What are the after triggers? 1) Triggers generated after a particular operation 2) These triggers run after an insert, update or delete on a table 2) These triggers run after an insert, views, update or delete on a table 2) These triggers run after an insert, views, update or delete on a table 3) All of the mentioned View Answer: b Explanation: AFTER TRIGGERS can be classified further into three types as: AFTER INSERT Trigger, AFTER UPDATE Trigger, AFTER DELETE Trigger. 5. The variables in the triggers are declared using 1) — 2) @ (5) / (1) // @ (6) // (7) // (8		
Answer: c ixplanation: The triggers run after an insert, update or delete on a table. They are not supported for views. 3. The CREATE TRIGGER statement is used to create the trigger. THE _clause specifies the table name on which the trigger is to be attached. Thespecifies that this is an AFTER INSERT trigger. 3) On, for insert, on 4) On, for insert 5) For, insert 6) None of the mentioned 7) Wise Answer: b 8. What are the after triggers? 9) Triggers generated after a particular operation 9) Triggers generated after a particular operation 9) These triggers run after an insert, update or delete on a table 2) These triggers run after an insert, views, update or delete on a table 2) These triggers run after an insert, views, update or delete on a table 3) All of the mentioned 4) Answer: b 5. The variables in the triggers are declared using 10 — 10 @ 2) // 2) // 3) //@ 4) Wise Answer Answer: b		
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Explanation: Example : declare @empid int; where empid is the variable.	a) for insert, on b) On, for insert c) For, insert d) None of the me View Answer Answer: b Explanation: The t 4. What are the aft a) Triggers general b) These triggers r c) These triggers r d) All of the mention View Answer Answer: b Explanation: AFTE DELETE Trigger 5. The variables in a) — b) @ c) / d) /@ View Answer	triggers run after an insert, update or delete on a table. They are not supported for views. Iter triggers? Ited after a particular operation Item an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, views, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an insert, update or delete on a table Item after an ins

6. The default exte	ension for an Oracle SQL*Plus file is:
a) .txt	
b) .pls	
c) .ora	
d) .sql	
View Answer	
Answer: d	
Explanation: Exam	ple :None.
7. Which of the fo	llowing is NOT an Oracle-supported trigger?
a) BEFORE	
b) DURING	
c) AFTER	
d) INSTEAD OF	
View Answer	
Answer: b	
Explanation: Exam	ple: During trigger is not p <mark>ossible in any d</mark> atabase.
8. What are the dif	ferent in triggers?
a) Define, Create	
b) Drop, Commer	
c) Insert, Update,d) All of the mention	
(1) All of the menno	
	nied
View Answer	oned
	oned Control of the C
View Answer Answer: c	ers are not possible for create, drop.
View Answer Answer: c	
View Answer Answer: c Explanation: Trigg	
View Answer Answer: c Explanation: Trigg 9. Triggers a) Can be	ers are not possible for create, drop.
View Answer Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be	ers are not possible for create, dropenabled or disabled
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be	ers are not possible for create, dropenabled or disabled
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always	ers are not possible for create, drop.
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always	ers are not possible for create, dropenabled or disabled
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer	ers are not possible for create, dropenabled or disabled
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a	ers are not possible for create, drop. enabled or disabled
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Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg	ers are not possible for create, drop. enabled or disabled ers can be manipulated.
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg	ers are not possible for create, drop. enabled or disabled
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only	ers are not possible for create, drop. enabled or disabled ers can be manipulated.
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers?
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only c) Both: new and:	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers?
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only c) Both: new and: d) Neither: new no	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers?
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only c) Both: new and: d) Neither: new no	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers?
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only c) Both: new and: d) Neither: new no View Answer Answer: c	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers? old or:old
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers? old or:old
Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only c) Both: new and: d) Neither: new no View Answer Answer: c	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers? old or:old
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Answer: c Explanation: Trigg 9. Triggers a) Can be b) Cannot be c) Ought to be d) Always View Answer Answer: a Explanation: Trigg 10. Which prefixe a): new only b): old only c) Both :new and: d) Neither :new no View Answer Answer: c	ers are not possible for create, drop. enabled or disabled ers can be manipulated. s are available to Oracle triggers? old or:old

	nd Aggregation Features
Any recursive view must be defined as the union of two subqueries: a	query that is nonrecursive and aquery.
a) Base, recursive	
b) Recursive, Base	
c) Base, Redundant	
d) View, Base	
View Answer	
Answer: a Explanation: First compute the base query and add all the resultant tuples to th	e recursively defined view relation.
2. Panking of queries is done by which of the following?	
Ranking of queries is done by which of the following? Oroup by	
b) Order by	
c) Having	
d) Both Group by and Order by	
View Answer	
Answer: b	and the state of t
Explanation: Order by clause arranges the values in ascending or descending of	order where a default is ascending order.
Answer: b Explanation: Example. rank() over (order by (GPA) desc). 4. Thefunction that does not create gaps in the ordering.	IDDAV'C/
a) Intense_rank()	
a) Intense_rank() b) Continue_rank()	
a) Intense_rank() b) Continue_rank() c) Default_rank()	
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank()	
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer	
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer	
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get	t rank 2, and tuples with the third highest value get rank 3, and s
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all geton.	t rank 2, and tuples with the third highest value get rank 3, and s
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10 b) Upto 10	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10 b) Upto 10 c) Only 10	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10 b) Upto 10 c) Only 10 d) Max 10	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10 b) Upto 10 c) Only 10 d) Max 10 View Answer	t rank 2, and tuples with the third highest value get rank 3, and so
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10 b) Upto 10 c) Only 10 d) Max 10 View Answer: a	
a) Intense_rank() b) Continue_rank() c) Default_rank() d) Dense_rank() View Answer Answer: d Explanation: For dense_rank() the tuples with the second highest value all get on. Inorder to give only 10 rank on the whole we should use a) Limit 10 b) Upto 10 c) Only 10 d) Max 10 View Answer	annot get the top n within each partition without performing

a) Ntil()
b) Cum_rank
e) Percent_rank
d) rank()
View Answer
Answer: c Explanation: Percent rank of a tuple gives the rank of the tuple as a fraction.
7. Inorder to simplify the null value confusion in the rank function we can specify
a) Not Null
b) Nulls last c) Nulls first
d) Either Nulls last or first
View Answer
view Allswei
Answer: d
Explanation: select ID, rank () over (order by GPA desc nulls last) as s rank from student grades;.
grades),
a) All of the mentioned
c) All of the mentioned d) None of the mentioned
View Answer
view Allswei
Answer: a
Explanation: Suppose that instead of going back a fixed number of tuples, we want the window to consist of all prior years we use rows
unbounded preceding.
9. The functions which construct histograms and use buckets for ranking is
a) Rank()
b) Newtil()
c) Ntil()
d) None of the mentioned
View Answer
W > '
Answer: c
Explanation: For each tuple, ntile(n) then gives the number of the bucket in which it is placed, with bucket numbers starting with 1.
10. The commandsuch tables are available only within the transaction executing the query and are dropped when the
transaction finishes.
a) Create table
b) Create temporary table
c) Create view
d) Create label view
View Answer
Answer: b
Explanation: None.

Database Questions and An	wers – OLAP
1. OLAP stands for	
a) Online analytical processing	
b) Online analysis processing	
c) Online transaction processing	
d) Online aggregate processing	
View Answer	
Answer: a	
	of information to support decision making.
	on attributes and measure attributes are calleddata.
a) Multidimensional	
o) Singledimensional	
c) Measured	
d) Dimensional	
View Answer	
Answer: a	
	ata analysis, we can identify some of its attributes as measure attributes, since they measure some
viewed.	attribute define the dimensions on which measure attributes, and summaries of measure attributes
3. The generalization of cross-tab which	is represented visually iswhich is also called as data cube.
a) Two dimensional cube	is represented visually iswhich is also called as data cube.
a) Two dimensional cube b) Multidimensional cube	is represented visually iswhich is also called as data cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube	is represented visually iswhich is also called as data cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid	is represented visually iswhich is also called as data cube.
3. The generalization of cross-tab which a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer	is represented visually is which is also called as data cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a	which is also called as data cube. which is also called as data cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide	ntified for the values for the three dimensional attributes.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal	
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing	ntified for the values for the three dimensional attributes.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing	ntified for the values for the three dimensional attributes.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting	ntified for the values for the three dimensional attributes.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing	ntified for the values for the three dimensional attributes.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer	ntified for the values for the three dimensional attributes.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a	tified for the values for the three dimensional attributes. (Single dimensional) with a fixed value of one attribute is
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or n
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or n
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation selected imensions from a given cube and process in the cube is ide and slicing and Dicing by Pivoting by Pivoting and Dicing by Pivoting by Pivoting contact the cube is ide and pivoting by Pivoting by Pivoting contact the cube is ide and pivoting by Pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and pivoting by Pivoting contact the cube is ide and	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and po	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or n
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and positions 5. The operation of moving from finer- a) Rollup	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and process 5. The operation of moving from finer- a) Rollup b) Drill down	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and process 5. The operation of moving from finer- a) Rollup b) Drill down c) Dicing	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and process a) Rollup b) Drill down c) Dicing d) Pivoting d) Pivoting	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and process a) Rollup b) Drill down c) Dicing d) Pivoting d) Pivoting d) Pivoting d) Pivoting	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.
a) Two dimensional cube b) Multidimensional cube c) N-dimensional cube d) Cuboid View Answer Answer: a Explanation: Each cell in the cube is ide 4. The process of viewing the cross-tal a) Slicing b) Dicing c) Pivoting d) Both Slicing and Dicing View Answer Answer: a Explanation: The slice operation select dimensions from a given cube and process a) Rollup b) Drill down c) Dicing d) Pivoting View Answer Answer: a	one particular dimension from a given cube and provides a new sub-cube. Dice selects two or novides a new sub-cube.

6. In SQL the cross-tabs are created using a) Slice b) Dice c) Pivot d) All of the mentioned View Answer Answer: a Explanation: Pivot (sum(quantity) for color in ('dark', 'pastel', 'white')). This can be achieved by using which of the following? a) group by rollup b) group by cubic c) group by d) none of the mentioned View Answer Answer: d Explanation: 'Group by cube' is used . 8. What do data warehouses support? a) OLAP b) OLTP c) OLAP and OLTP d) Operational databases View Answer Answer: a Explanation: None. How many grouping is possible in this rollup? a) 8 DEWITHARR b) 4 c) 2 d) 1 View Answer Answer: b Explanation: { (item name, color, clothes size), (item name, color), (item name), () }. 10. Which one of the following is the right syntax for DECODE? a) DECODE (search, expression, result [, search, result]... [, default]) b) DECODE (expression, result [, search, result]... [, default], search) c) DECODE (search, result [, search, result]... [, default], expression) d) DECODE (expression, search, result [, search, result]... [, default]) View Answer

Answer: d Explanation: None.

	l Answers – Relational Algebra
_	query language that takes two relations as input and produces another relation as an output of the que
a) Relational	
b) Structural	
c) Procedural d) Fundamental	
View Answer	
Answer: c	
	undamental and other operations which are used on relations.
2. Which of the following is a fur	ndamental operation in relational algebra?
a) Set intersection	
b) Natural join	
c) Assignment	
d) None of the mentioned	
View Answer	
Answer: d	
Explanation: The fundamental op	perations are select, project, union, set difference, Cartesian product, and rename.
3. Which of the following is used	to denote the selection operation in relational algebra?
a) Pi (Greek)	
b) Sigma (Greek)	
c) Lambda (Greek)	
d) Omega (Greek)	
d) Omega (Greek) View Answer	
d) Omega (Greek)	
d) Omega (Greek) View Answer Answer: b	n selects tuples that satisfy a given predicate.
d) Omega (Greek) View Answer Answer: b	n selects tuples that satisfy a given predicate.
d) Omega (Greek) View Answer Answer: b Explanation: The select operation	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b	DEWITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation	DEW/ITHADDAV'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a	DEW/ITHADDAY'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None.	DEW/ITHADDAV'C/
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None. 5. Theoperation, a) Union	_appear in the subscript and theargument appears in the paranthesis after the sigma.
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None. 5. Theoperation, a) Union b) Set-difference	_appear in the subscript and theargument appears in the paranthesis after the sigma.
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None. 5. Theoperation a) Union b) Set-difference c) Difference	_appear in the subscript and theargument appears in the paranthesis after the sigma.
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None. 5. Theoperation a) Union b) Set-difference c) Difference d) Intersection	_appear in the subscript and theargument appears in the paranthesis after the sigma.
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None. 5. Theoperation a) Union b) Set-difference c) Difference d) Intersection	_appear in the subscript and theargument appears in the paranthesis after the sigma.
d) Omega (Greek) View Answer Answer: b Explanation: The select operation 4. For select operation the a) Predicates, relation b) Relation, Predicates c) Operation, Predicates d) Relation, Operation View Answer Answer: a Explanation: None.	appear in the subscript and theargument appears in the paranthesis after the sigma.

(1) Generalized selection View Answer Answer: A Explanation: Generalization Selection takes only one argument for operation. Which is a join condition contains an equality operator: D Equijoins O Cartesian O Natural D Left of View Answer Answer: a Explanation: None. S. In precedence of set operators, the expression is evaluated from D Left to left D Left of left D From user specification View Answer Answer: b Explanation: The expression is evaluated from left to right according to the precedence. Which of the following is not outer join? D Left outer join O Eull outer join D Full outer join D All of the mentioned View Answer Answer: A Explanation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. O. The assignment operator is denoted by D S = D = D = D		
O Generalized selection View Answer Answer Answer Asswer		
O Generalized selection View Answer Answer Answer Asswer		
Answer: d	c) Projection operation	
Explanation: Generalization Selection takes only one argument for operation. 7. Which is a join condition contains an equality operator: 5. Equijoins 7. Cartesian 7. Name of Section 1. S	d) Generalized selection View Answer	
Which is a join condition contains an equality operator: (a) Equijoins (b) Cartesian (c) Natural (c) Left (d) Left (d) Left (d) Left to left (d) Left to left (e) Left to right (e) Right to left (e) Right outer join (e) Left to leter join (e) Left to left in left (e) Right outer join (e) Left outer join (e) Right outer join (e) Right outer join (e) Right outer join (e) Hill outer join (e) All of the mentioned (e) Right outer join (e) All of the mentioned (e) Right outer join (e) All of the mentioned (e) Right outer join (e) All of the mentioned (f) Was Answer (f) Signation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. O. The assignment operator is denoted by (e) Signation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins.	Answer: d	
Discriptions Of Cartesian Of Ca	Explanation: Generalization	n Selection takes only one argument for operation.
o) Cartersian () Natural () Left () View Answer Answer: a () Explanation: None. 8. In precedence of set operators, the expression is evaluated from () Left to left () Left to right () Left to right () Left to right () Right to left () From user specification ()		n contains an equality operator:
D) Natural (1) Left (2) Left (3) Left (4) Left (5) Left to left (5) Left to left (6) Left to left (7) Left to left (8) Erom user specification (8) In precedence of set operators, the expression is evaluated from (9) Left to left (10) Left to left (10) Left to left (10) Left to left (10) Erom user specification (10) From user specific		
D. Left View Answer: Answer: a Explanation: None. 8. In precedence of set operators, the expression is evaluated from D. Left to left D. Left to left D. Left to left D. From user specification View Answer: Answer: Answer: D. Which of the following is not outer join? D. Left outer join D. Right outer join D. All of the mentioned View Answer: Answer		
Answer: a Explanation: None. 8. In precedence of set operators, the expression is evaluated from b) Left to left c) Left to right c) Right to left d) From user specification View Answer Answer: b Explanation: The expression is evaluated from left to right according to the precedence. 9. Which of the following is not outer join? b) Left outer join c) Right outer join c) Right outer join d) All of the mentioned View Answer Answer: d Explanation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. 10. The assignment operator is denoted by 0) > 0) < 0) = 0 =		
Answer: a Explanation: None. 8. In precedence of set operators, the expression is evaluated from (a) Left to left (b) Left to right (c) Right to left (d) From user specification (e) Which of the following is not outer join? (a) Left outer join (b) Right outer join (c) Right outer join (d) All of the mentioned (e) Wasswer: Answer: d (e) The assignment operator is denoted by (e) -> (e) -> (f) -> (f		
Explanation: None. 3. In precedence of set operators, the expression is evaluated from (a) Left to left (b) Left to right (c) Right to left (d) From user specification (b) View Answer Answer: b (c) Explanation: The expression is evaluated from left to right according to the precedence. (d) Which of the following is not outer join? (e) Left outer join (e) Right outer join (e) All of the mentioned (f) All of the mentioned (f) Answer: d (c) Explanation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. (o) The assignment operator is denoted by (e) Company to the precedence of the precedence of the precedence of the precedence. (a) Answer: d (c) Company to the precedence of the	VICW AllSWCI	
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D. Left to left D. Left to right D. Right to left D. From user specification View Answer Answer: D. Which of the following is not outer join? D. Left outer join D. Right outer join D. Right outer join D. Right outer join D. Hull outer join D. All of the mentioned View Answer Answer: D. Which of the FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. O. The assignment operator is denoted by D. S.	Explanation: None.	
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2) Left to right 2) Right to left 3) From user specification View Answer Answer: b Explanation: The expression is evaluated from left to right according to the precedence. 2) Which of the following is not outer join? 3) Left outer join 4) Right outer join 5) Full outer join 1) All of the mentioned View Answer Answer: d Explanation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. 3) Co. The assignment operator is denoted by 4) > 5) > 6) = 6) = 7) User Answer: Answer Answer: b		erators, the express <mark>ion is evaluat</mark> ed from
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Answer: b	O. Which of the following	is not outputicin?
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Answer: d Explanation: The FULL OUTER JOIN keyword combines the result of both LEFT and RIGHT joins. 10. The assignment operator is denoted by 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 10 -> 11 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 16 -> 17 -> 18 -> 19 -> 19 -> 19 -> 19 -> 10 -> 10 -> 11 -> 11 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 16 -> 17 -> 18 ->		
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a) -> b) <- c) = d) == View Answer Answer: b	10. The assignment opera	tor is denoted by
e) = d) == View Answer Answer: b	a) ->	
I) == View Answer Answer: b	b) <-	
View Answer Answer: b	c) =	
Answer: b	d) ==	
	View Answer	
explanation: The result of the expression to the right of the \leftarrow is assigned to the relation variable on the left of the \leftarrow .		
	Explanation: The result of	the expression to the right of the \leftarrow is assigned to the relation variable on the left of the \leftarrow .

Database Questions and Answers - Tuple Relational Calculus and Domain Relational Calculus

3.

```
{t | 9 s \epsilon instructor (t[name] = s[name] 
 \wedge 9 u \epsilon department (u[dept name] = s[dept name] 
 \wedge u[building] = "Watson"))}
```

- 1. Find the ID, name, dept name, salary for instructors whose salary is greater than \$80,000.
- a) $\{t \mid t \in instructor \land t[salary] > 80000\}$
- b) $\exists t \in r(Q(t))$
- c) $\{t \mid \exists s \in \text{instructor} (t[ID] = s[ID] \land s[salary] > 80000)\}$
- d) None of the mentioned

View Answer

Answer: a

Explanation: This expression is in tuple relational format.

3.

- 2. A query in the tuple relational calculus is expressed as:
- a) $\{t \mid P() \mid t\}$
- b) $\{P(t) | t \}$
- c) $\{t \mid P(t)\}$
- d) All of the mentioned

View Answer

Answer: c

Explanation: The tuple relational calculus, is a nonprocedural query language. It describes the desired information without giving a specific procedure for obtaining that information.

3.

Which of the following best describes the query?

- a) Finds the names of all instructors whose department is in the Watson building
- b) Finds the names of all department is in the Watson building
- c) Finds the name of the dapartment whose instructor and building is Watson
- d) Returns the building name of all the departments

View Answer

Answer: a

Explanation: This query has two "there exists" clauses in our tuple-relational-calculus expression, connected by and (\land) .

3.

```
{t | 9 s ε instructor (t[name] = s[name]
Λ 9 u ε department (u[dept name] = s[dept name]
Λ u[building] = "Watson"))}
```

4. Which of the following symbol is used in the place of except?

a) ^

```
b) Vc) ¬
```

d) ~

View Answer

Answer: c

Explanation: The query $\neg P$ negates the value of P.

3

- 5. "Find all students who have taken all courses offered in the Biology department." The expressions that matches this sentence is:
- a) \ni t ε r (Q(t))
- b) \forall t ε r (Q(t))
- $c) \, \neg \, t \, \epsilon \, r \, (Q(t))$
- d) ~ $t \epsilon r (Q(t))$

View Answer

Answer: b

Explanation: ∀ is used denote "for all" in SQL.

3.

```
{t | 9 s ε instructor (t[name] = s[name]
Λ 9 u ε department (u[dept name] = s[dept name]
Λ u[building] = "Watson"))}
```

- 6. Which of the following is the comparison operator in tuple relational calculus
- a) ⇒
- b) =
- c) ϵ
- d) All of the mentioned

View Answer

Answer: b

Explanation: The comparison operators are $(<, \le, =, =, >, \ge)$.

3.

```
{t | 9 s \epsilon instructor (t[name] = s[name]

\wedge 9 u \epsilon department (u[dept name] = s[dept name]

\wedge u[building] = "Watson"))}
```

7. An expression in the domain relational calculus is of the form

```
a) \{P(x1, x2, \dots, xn) \mid < x1, x2, \dots, xn > \}
```

- b) $\{x1, x2, ..., xn \mid < x1, x2, ..., xn > \}$
- c) $\{x1, x2, ..., xn | x1, x2, ..., xn\}$
- d) $\{ < x1, x2, ..., xn > | P(x1, x2, ..., xn) \}$

View Answer

Answer: d

Explanation: Here $x1, x2, \ldots, xn$ represent domain variables. P represents a formula composed of atoms, as was the case in the tuple relational calculus.

3

```
\{t \mid \Im \ s \ \epsilon \ instructor \ (t[name] = s[name]
```

View Answer

Answer: b

Explanation: None.

3.

```
{t | \Im s \varepsilon instructor (t[name] = s[name]
 \land \Im u \varepsilon department (u[dept name] = s[dept name]
 \land u[building] = "Watson"))}
```

- 9. In domain relaional calculus "there exist" can be expressed as
- a) (P1(x))
- b) (P1(x)) 3 x
- c) V x (P1(x))
- d) $\ni x (P1(x))$

View Answer

Answer: d

Explanation: 3 is used to denote "some" values in relational calculus.

3.

CODEWITHARR

- 10. A set of possible data values is called
- a) Attribute
- b) Degree
- c) Tuple
- d) Domain

View Answer

Answer: d
Explanation: None.

	uestions and Answers – The Entity-Relationship Model
1. An	is a set of entities of the same type that share the same properties, or attributes.
a) Entity set	
b) Attribute set	
c) Relation set	
d) Entity model View Answer	
view Allswei	
Answer: a	n entity is a "thing" or "object" in the real world that is distinguishable from all other objects.
Ехріанацон. Ан	Childy is a tilling of object. In the real world that is distinguishable from all objects.
2. Entity is a	
a) Object of rel	
b) Present work	
c) Thing in real	
d) Model of rela View Answer	ition
view Answer	
Answer: c	
Explanation: For	r example, each person <mark>in a univer</mark> sity is an entity.
	ive property possessed by each entity set is
a) Entity	
b) Attribute	
c) Relation	
d) Model View Answer	
VICW AllSWCI	
Answer: b	
Explanation: Po	ossible attributes of the instructor entity set are ID, name, dept name, and salary.
	CODEWITH ADDAY'C/S
	that an entity plays in a relationship is called that entity's
a) Participation	OUDE III III IIII III O
b) Position	
c) Role	
d) Instance View Answer	
View Aliswei	
Answer: c	
Explanation: A	relationship is an association among several entities.
5 The attribute	name could be structured as an attribute consisting of first name, middle initial, and last name. This type of attribute is called
a) Simple attrib	
o) Composite a	
c) Multivalued a	
d) Derived attrib	
View Answer	
Answer: b	

c) Composite d) Derived
1) Denved View Answer
VICW Allower
Answer: d Explanation: The value for this type of attribute can be derived from the values of other related attributes or entities.
7. Not applicable condition can be represented in relation entry as
a) NA
0 0
e) NULL
d) Blank Space
View Answer
Answer: c
Explanation: NULL always represents that the value is not present.
8. Which of the following can be a multivalued attribute?
a) Phone_number
b) Date_of_birth d) All of the mentioned
View Answer
VIEW Allswei
Answer: a
Explanation: Name and Date_of_ <mark>birth</mark> cannot hold more than 1 value.
9. Which of the following is a single valued attribute
a) Register_number
b) Address
c) SUBJECT_TAKEN
d) Reference
View Answer
M.CI IIIIF WII HAKKAY >/>
Answer: a
Explanation: None.
10. In a relation between the entities the type and condition of the relation should be specified. That is called asattribute.
a) Desciptive
b) Derived
c) Recursive
l) Relative View Answer
view Aliswei
Answer: a
Explanation: Consider the entity sets student and section, which participate in a relationship set takes. We may wish to store a descriptive
attribute grade with the relationship to record the grade that a student got in the class.

Database Questions and Answers – Constraints

- a) Mapping Cardinality
- b) Relational Cardinality
- c) Participation Constraints
- d) None of the mentioned

View Answer

Answer: a

Explanation: Mapping cardinality is also called as cardinality ratio.

- 2. An entity in A is associated with at most one entity in B, and an entity in B is associated with at most one entity in A. This is called as
- a) One-to-many
- b) One-to-one
- c) Many-to-many
- d) Many-to-one

View Answer

Answer: b

Explanation: Here one entity in one set is related to one one entity in other set.

- 3. An entity in A is associated with at most one entity in B. An entity in B, however, can be associated with any number (zero or more) of entities in A.
- a) One-to-many
- b) One-to-one
- c) Many-to-many
- d) Many-to-one

View Answer

Answer: d

Explanation: Here more than one entity in one set is related to one one entity in other set.

- 4. Data integrity constraints are used to:
- a) Control who is allowed access to the data
- b) Ensure that duplicate records are not entered into the table
- c) Improve the quality of data entered for a specific property
- d) Prevent users from changing the values stored in the table

View Answer

Answer: c

Explanation: The data entered will be in a particular cell (i.e., table column).

- 5. Establishing limits on allowable property values, and specifying a set of acceptable, predefined options that can be assigned to a property are examples of:
- a) Attributes
- b) Data integrity constraints
- c) Method constraints
- d) Referential integrity constraints

View Answer

Answer: b

Explanation: Only particular value satisfying the constraints are entered in the column.

6. Which of the following can be addressed by enforcing a referential integrity constraint?

a) All phone numbers must include the area codeb) Certain fields are required (such as the email address, or phone number) before the record is acceptedc) Information on the customer must be known before anything can be sold to that customer	
d) Then entering an order quantity, the user must input a number and not some text (i.e., 12 rather than 'a dozen') View Answer	
Answer: c Explanation: None.	
7is a special type of integrity constraint that relates two relations & maintains consistency across the relations.	
a) Entity Integrity Constraints	
b) Referential Integrity Constraints	
c) Domain Integrity Constraints	
d) Domain Constraints	
View Answer	
Answer: b	
Explanation: None.	
8. Which one of the following uniquely identifies the elements in the relation?	
a) Secondary Key	
b) Primary key	
c) Foreign key	
d) Composite key	
View Answer	
Answer: b	
Explanation: Primary key checks for not null and uniqueness constraint.	
9. Drop Table cannot be used to drop a table referenced by aconstraint.	
a) Local Key	
b) Primary Key	
c) Composite Key	
d) Foreign Key	
View Answer	
Answer: d Explanation: Foreign key is used when primary key of one relation is used in another relation.	
10is preferred method for enforcing data integrity	
a) Constraints	
b) Stored Procedure	
c) Triggers	
d) Cursors	
View Answer	
Answer: a	
Explanation: Constraints are specified to restrict entries in the relation.	
Даранацон. Сольчанию ще эресписа to resure charles in the relation.	

Which of the following gives a logical structure of the database graphically?	
Entity-relationship diagram	
Entity diagram	
Database diagram OArchitectural representation	
iew Answer	
nswer: a	
xplanation: E-R diagrams are simple and clear—qualities that may well account in large part for the widespread use of the E-R n	nodel.
The entity relationship set is represented in E-R diagram as	
Double diamonds	
Undivided rectangles	
Dashed lines	
) Diamond	
iew Answer	
nswer: d	
xplanation: Dashed lines link attributes of a relationship set to the relationship set.	
. The Rectangles divided into two parts represents	
Entity set	
Relationship set	
Attributes of a relationship set	
Primary key	
iew Answer	
nswer: a	
xplanation: The first part of the rectangle, contains the name of the entity set. The second part contains the names of all the attrib	butes of the
ntity set.	butes of the
<u> </u>	
Consider a directed line(->) from the relationship set advisor to both entity sets instructor and student. This indicates	cardinali
One to many	cardinan
One to one	
Many to many	
) Many to one	
iew Answer	
nswer: b	
xplanation: This indicates that an instructor may advise at most one student, and a student may have at most one advisor.	
We indicate roles in E-R diagrams by labeling the lines that connectto	
Diamond, diamond	
Rectangle, diamond	
Rectangle, rectangle	
Diamond, rectangle	
iew Answer	

1) \$7				
b) Variant set				
c) Weak entity set				
d) Variable set View Answer				
View Allswei				
Answer: c				
Explanation: An entity set that has	a primary key is termed a stro	ng entity set.		
7. For a weak entity set to be mea	ningful, it must be associated v	vith another entity set, c	alled the	
a) Identifying set				
b) Owner set				
c) Neighbour set				
d) Strong entity set				
View Answer				
Answer: a				
Explanation: Every weak entity r				
identifying entity set. The identif	ing entity set is said to own the	e weak entity set that it	dentifies. It is also calle	d as owner entity set.
8. Weak entity set is represented	ıs			
a) Underline				
b) Double line				
c) Double diamond				
d) Double rectangle				
View Answer				
Answer: c	4. 7 V			
Evaluation: An entity set that has	a primary vev is termed a stro	na antity cat		

9. If you were collecting and storing information about your music collection, an album would be considered a(n)

Explanation: An entity set is a logical container for instances of an entity type and instances of any type derived from that entity type.

10. What term is used to refer to a specific record in your music database; for instance; information stored about a specific album?

Explanation: The environment of database is said to be an instance. A database instance or an 'instance' is made up of the background

a) Relationb) Entityc) Instanced) AttributeView Answer

Answer: b

a) Relationb) Instancec) Tabled) ColumnView Answer

Answer: b

processes needed by the database.

Database Questions and Answers - Reduction to Relational Schemas

Answer: c

Explanation: Two rows are select in the above query.

3. SELECT * FROM teaches WHERE Sec_id = 'CS-101'; 1. Which one of the following can be treated as a primary key in teaches relation? b) Semester c) Sec_id d) Year View Answer Answer: a Explanation: Here Id is the only attribute that has to have a unique entry. 3. SELECT * FROM teaches WHERE Sec_id = 'CS-101'; 2. The primary key in the section relation is a) Course_id b) Sec_id c) Both Course_id and Sec_id d) All the attributes View Answer Answer: c Explanation: Both the entries has unique entry. 3. SELECT * FROM teaches WHERE Sec_id = 'CS-101'; Which of the following Id is selected for the following query? a) 1003 b) 1001 c) None d) Error message appears View Answer Answer: d Explanation: The value CS-101 matches the Course_id but not Id. 3. SELECT * FROM teaches WHERE Sec id = 'CS-101'; Which of the following Id are displayed? a) 1003 b) 1001 c) Both 1003 and 1001 d) Error message appears View Answer

3. SELECT * FROM teaches WHERE Sec_id = 'CS-101'; 5. The query which selects the Course_id 'CS-101' from the section relation is a) Select Course_id from section where Building = 'Richard'; b) Select Course_id from section where Year = '2009'; c) Select Course_id from teaches where Building = 'Packyard'; d) Select Course_id from section where Sec_id = '3'; View Answer Answer: b Explanation: The year '2009' should be selected from the section relation. 3. SELECT * FROM teaches WHERE Sec_id = 'CS-101'; Which of the following has an error in the above create table for the relation section a) Primary key (course id, sec id, semester, year) b) Foreign key (course id) references course c) Year numeric (4,0) d) Building numeric (15) View Answer Answer: d Explanation: It should be replaced by Year Building varchar (15). 3. SELECT * FROM teaches WHERE Sec_id = 'CS-101'; 7. The relation with primary key can be created using a) Create table instructor (Id, Name) b) Create table instructor (Id, Name, primary key(name)) c) Create table instructor (Id, Name, primary key (Id)) d) Create table instructor (Id unique, Name) View Answer Explanation: The value Name cannot be a primary key. 3.

```
SELECT * FROM teaches WHERE Sec_id = 'CS-101';
```

- 8. How can the values in the relation teaches be deleted?
- a) Drop table teaches;
- b) Delete from teaches;
- c) Purge table teaches;
- d) Delete from teaches where Id ='Null';

View Answer

Answer: b

Explanation: Delete table cleans the entry from the table.

```
SELECT * FROM teaches WHERE Sec_id = 'CS-101';
```

9. In the above teaches relation "Select * from teaches where Year = '2010'" displays ho	w many rows?
a) 2	w many rows.
b) 4	
c) 5	
d) 1	
View Answer	
Answer: a	
Explanation: There are two tuples with the year is 2009.	
3.	

SELECT * FROM teaches WHERE Sec_id = 'CS-101';

- 10. The relation changes can be got back using _____command
- a) Flashback
- b) Purge
- c) Delete
- d) Getback

View Answer

Answer: a

Explanation: Purge deletes the table and delete cleans the table entry.



Database Questions and Answers – Entity-Relationship Design Issues	
1. Let us consider <i>phone_number</i> , which can take single or several values . Treating <i>phone_number</i> as an	permits instructors to
have several phone numbers (including zero) associated with them.	
a) Entity	
b) Attribute	
c) Relation	
d) Value View Answer	
VIEW AllSWEI	
Answer: a	
Explanation: Treating a phone as an attribute phone_number implies that instructors have precisely one phone	e number each.
2. The total participation by entities is represented in E-R diagram as	
a) Dashed line	
b) Double line	
c) Double rectangle	
d) Circle	
View Answer	
Answer: b	
Explanation: It is used to represent the relation between several attributes.	
d) In a row of a relational table, an attribute can have exactly one value or a NULL value View Answer Answer: c Explanation: It is possible to have several values for a single attribute provide it is a multi-valued attribute.	//C/_
4. Which of the following indicates the maximum number of entities that can be involved in a relationship? a) Minimum cardinality	
b) Maximum cardinality	
c) ERD	
d) Greater Entity Count	
View Answer	
A	
Answer: b Explanation: In SQL (Structured Query Language), the term cardinality refers to the uniqueness of data value	a contained in a monticular column
(attribute) of a database table.	s contained in a particular column
(attribute) of a database table.	
5. In F-R diagram generalization is represented by	
a) Ellipse	
a) Ellipse b) Dashed ellipse	
a) Ellipse b) Dashed ellipse c) Rectangle	
a) Ellipse b) Dashed ellipse c) Rectangle d) Triangle	
5. In E-R diagram generalization is represented by a) Ellipse b) Dashed ellipse c) Rectangle d) Triangle View Answer	
a) Ellipse b) Dashed ellipse c) Rectangle d) Triangle	

- a) Unary
- b) Binary
- c) Ternary
- d) Quaternary

View Answer

Answer: b

Explanation: Binary word usually represents two attributes.

- 7. Which of the following is a low level operator?
- a) Insert
- b) Update
- c) Delete
- d) Directory

View Answer

Answer: d

Explanation: Directory is a low level to word on in file system.

- 8. Key to represent relationship between tables is called
- a) Primary key
- b) Secondary Key
- c) Foreign Key
- d) None of the mentioned

View Answer

Answer: c

Explanation: Primary key of one relation used as an attribute in another relation is called foreign key.

DEWITHAR

- 9. A window into a portion of a database is
- a) Schema
- b) View
- c) Query
- d) Data dictionary

View Answer

Answer: b

Explanation: View is a logical portion of a database which is needed by some users.

- 10. A primary key is combined with a foreign key creates
- a) Parent-Child relation ship between the tables that connect them
- b) Many to many relationship between the tables that connect them
- c) Network model between the tables that connect them
- d) None of the mentioned

View Answer

Answer: a

Explanation: Using the two relationships mother and father provides us a record of a child's mother, even if we are not aware of the father's identity; a null value would be required if the ternary relationship parent is used. Using binary relationship sets is preferable in this case.

Database Questions and Answers – Extended E-R Features	
The entity set person is classified as student and employee. This process is called	
a) Generalization	
b) Specialization	
c) Inheritance	
d) Constraint generalization	
View Answer	
Answer: b	
Explanation: The process of designating subgroupings within an entity set is called specialization.	
2. Which relationship is used to represent a specialization entity?	
a) ISA	
b) AIS	
c) ONIS	
d) WHOIS	
View Answer	
American o	
Answer: a Explanation: In terms of an E-R diagra <mark>m, speciali</mark> zation is depicted by a hollow arrow-head pointing fro <mark>m th</mark> e specialized entity to the ot	hor
entity.	nei
Ollary.	
2. The refinement from an initial antity act into averaging levels of antity subgroupings represents a design process in which	
3. The refinement from an initial entity set into successive levels of entity subgroupings represents adesign process in which distinctions are made explicit.	
a) Hierarchy	
b) Bottom-up	
c) Top-down	
d) Radical	
View Answer	
Answer: c	
Explanation: The design process may also proceed in a bottom-up manner, in which multiple entity sets are synthesized into a higher-lev	el entity
set on the basis of common features.	
4. There are similarities between the instructor entity set and the secretary entity set in the sense that they have several attributes that are	
conceptually the same across the two entity sets: namely, the identifier, name, and salary attributes. This process is called	
a) Commonality	
b) Specialization	
c) Generalization d) Similarity	
View Answer	
VICW Allowed	
Answer: c	
Explanation: Generalization is used to emphasize the similarities among lower-level entity sets and to hide the differences.	
5. If an entity set is a lower-level entity set in more than one ISA relationship, then the entity set has	
a) Hierarchy	
b) Multilevel inheritance	
c) Single inheritance	
d) Multiple inheritance	
View Answer	

Explanation: The attributes of the higher-level entity sets are said to be inherited by the lower-level entity sets.

6. A	constraint requires that an entity belong to no more than one lower-level entity set.
a) Disjointness	constraint requires that an entity belong to no more than one lower-level entity set.
b) Uniqueness	
c) Special	
d) Relational	
View Answer	
Answer: a	example, student entity can satisfy only one condition for the student type attribute; an entity can be either a graduate student
	uate student, but cannot be both.
	mployee work-team example, and assume that certain employees participate in more than one work team. A given employee
may therefore app	pear in more than one of the team entity sets that are lower level entity sets of employee. Thus, the generalization is
-) 01:	
a) Overlappingb) Disjointness	
c) Uniqueness	
d) Relational	
View Answer	
Answer: a	
Explanation: In ov	verlapping generalizations, the same entity may belong to more than one lower-level entity set within a single generalization.
	ess constraint may be one of the following: Total generalization or specialization, Partial generalization or specialization. Which
is the default?	
a) Total	
b) Partial	.:0.1
c) Should be specd) Cannot be dete	
View Answer	ATTIMICA
view ringwer	
Answer: b	
Explanation: Parti	ial generalization or specialization – Some higher-level entities may not belong to any lower-level entity set.
	I IIIII-WII HAWWAY X/S/
9 Functional den	endencies are a generalization of
a) Key dependen	dencies
a) Key dependendendenb) Relation dependenden	1 E
a) Key dependenceb) Relation depencec) Database depence	
a) Key dependendendendendendendendendendendendende	
a) Key dependenceb) Relation depencec) Database depence	
a) Key dependendendendendendendendendendendendende	
a) Key dependend b) Relation depend c) Database depend) None of the moview Answer Answer: a	
a) Key dependend b) Relation depend c) Database depend d) None of the ma View Answer Answer: a Explanation: The	subclasses are combined to form the superclass.
a) Key dependend b) Relation depend c) Database depend d) None of the moview Answer Answer: a Explanation: The	entioned
a) Key dependend b) Relation depend c) Database depend d) None of the moview Answer Answer: a Explanation: The	subclasses are combined to form the superclass.
a) Key dependendender b) Relation dependence) Database dependence d) None of the moview Answer Answer: a Explanation: The 10. Which of the inaly Child b) Owner	subclasses are combined to form the superclass.
a) Key dependendender b) Relation dependence) Database dependence d) None of the moderate Answer: Answer: a Explanation: The 10. Which of the factor of the	subclasses are combined to form the superclass. following is another name for a weak entity?
a) Key dependendender b) Relation dependence) Database dependence d) None of the model of the mo	subclasses are combined to form the superclass. following is another name for a weak entity?
a) Key dependent b) Relation depen c) Database depe d) None of the mo View Answer Answer: a Explanation: The 10. Which of the sa) Child b) Owner c) Dominant d) All of the ment	subclasses are combined to form the superclass. following is another name for a weak entity?
a) Key dependendender b) Relation dependence) Database dependence d) None of the medical view Answer Answer: a Explanation: The 10. Which of the medical Child b) Owner c) Dominant d) All of the mentiview Answer Answer: a	subclasses are combined to form the superclass. following is another name for a weak entity?

Database Questions and Answers - Querying database part-1 DDL

- 1. Which is the main relation which is used in the university database which is referenced by all other relation of the university?
- a) Teaches
- b) Course
- c) Department
- d) Section

View Answer

Answer: c

Explanation: Department is the only relation which forms the main part of the university database.

- 2. The department relation has the an entry budget whose type has to be replaced by
- a) Varchar (20)
- b) Varchar2 (20)
- c) Numeric (12,2)
- d) Numeric

View Answer

Answer: c

Explanation: Department is the only relation which forms the main part of the university database.

- 3. In the course relation, the title field should throw an error in case of any missing title. The command to be added in title is
- a) Unique
- b) Not null
- c) 0
- d) Null

View Answer

Answer: b

Explanation: By specifying not null the value cannot be left blank.

- 4. In the above DDL command the foreign key entries are got by using the keyword
- a) References
- b) Key reference
- c) Relating
- d) None of the mentioned

View Answer

Answer: a

Explanation: References (table_name) give the prior table name for the entry.

- 5. Identify the error in the section relation
- a) No error
- b) Year numeric (4,0)
- c) Building varchar (15)
- d) Sec_id varchar (8)

View Answer

Answer: a

Explanation: The building and the sec_id have varchar values and year is of numeric type. So no such errors are found in the relation.

Identify the output of the query given

- a) Row(s) inserted
- b) Error in ID of insert

- c) Error in Name of insert
- d) Error in Salary of the insert

Answer: b

Explanation: The varchar(5) value cannot hold the entry 100202.

- 7. Which of the following can be used as a primary key entry of the instructor relation.
- a) DEPT_NAME
- b) NAME
- c) ID
- d) All of the mentioned

View Answer

Answer: c

Explanation: The value ID can only be primary key unlike dept_name which is used as a foreign key.

- 8. In the section relation which of the following is used as a foreign key?
- a) Course_id
- b) Course_id,sec_id
- c) Room_number
- d) Course_id,sec_id,room_number

View Answer

Answer: a

Explanation: Course_id is the only field which is present in the course relation.

- 9. In order to include an attribute Name to the teaches relation which of the following command is used?
- a) Alter table teaches include Name;
- b) Alter table teaches add Name;
- c) Alter table teaches add Name varchar;
- d) Alter table teaches add Name varchar(20);

View Answer

Answer: d

Explanation: The form of the alter table command is

alter table r add AD;

where r is the name of an existing relation, A is the name of the attribute to be added, and D is the type of the added attribute.

- 10. To replace the relation section with some other relation the initial step to be carried out is
- a) Delete section;
- b) Drop section;
- c) Delete from section;
- d) Replace section new_table;

View Answer

Answer: b

Explanation: Droping the table drops all the references to that table.

Database Questions and Answers - Querying database part-2 DML

- 1. Which of the following command is used to display the departments of the instructor relation?
- a) Select * from instructor where Dept_name = Finance;
- b) Select * from instructor;
- c) Select dept_name from instructor;
- d) Select dept_name for instructor where Name=Jackson;

View Answer

Answer: c

Explanation: Only one field is necessary for the query and where clause is not needed for the selection.

- 2. How can we select the elements which have common Dept_name in both the relation?
- a) Select * from instructor i , course c where i.Dept_name=c.Dept_name;
- b) Select Dept name from instructor, Course;
- c) Select * from instructor i, course c;
- d) Select Dept_name from instructor where Dept_name = NULL;

View Answer

Answer: a

Explanation: Here only the common elements are displayed.

3. Select distinct Dept_name from instructor;

How many row(s) are displayed?

a) 4

b) 3

c) 5

d) Error View Answer

A normore o

Explanation: Distinct keyword eliminates the the common Dept_name .

d) Insert into course values(12111,Emma,NeuroScience,200000);

View Answer

Answer: c

Explanation: The values have to be inserted into both the relations to be intact.

- 5. If a person all the people in Music department gets fired which of the following has to be performed on the instructor relation?
- a) Delete Dept_name=Music in instructor;
- b) Delete from instructor where Dept_name=Music;
- c) Remove Dept_name= Music
- d) All of the mentioned

View Answer

Answer: b

Explanation: Delete from table_name where condition.

What will be displayed as the value of name for the above query?

- a) Hayley
- b) Jackson
- c) Hayley and Crick
- d) Crick

View Answer

Answer: d Explanation: Only the greatest salary in Comp.Sci dept is selected for the query.	
How many rows are selected ?	
a) 3	
b) 4	
c) 2	
d) 1	
View Answer	
Answer: d	
Explanation: This displays the names of instructors with salary greater than that of some (at least one) instruc	ctor in the Biology department.
View Answer	
Answer: a	
Explanation: % is used to indicate that some characters may appear.	
9. Which function is used to find the count of distinct departments?	
a) Dist	
b) Distinct c) Count	
d) Count,Dist	
View Answer	
Answer: a	
Explanation: Count (distinct ID) is the correct usage.	
10. Which function is used to identify the title with Least scope?	
a) Min(Credits) b) Max(Credits)	
c) Min(title)	
d) Min(Salary)	
View Answer	
A CLIIIIF WITH ARRA	
Answer: a Explanation: Max is used to find the highest element and Min is used to find the lowest element.	
Explanation: Max is used to find the nignest element and Min is used to find the lowest element.	

Database Questions and Answers – Atomic Domains

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- 1. A domain is ______if elements of the domain are considered to be indivisible units.
- a) Atomic
- b) Subatomic
- c) Substructure
- d) Subset

View Answer

Answer: a

Explanation: A set of names is an example of a nonatomic value.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B }
ii. R(A, B) WITH productions { B --> A }
iii. R(A, B) WITH productions {A -> B, B --> A }
iv. R(A, B, C) WITH productions {A --> B, B --> A, AB --> C }
```

- 2. Identify the composite attributes
- a) Salary
- b) Credits
- c) Section_id
- d) None of the mentioned

View Answer

Answer: d

Explanation: Composite attributes, such as an attribute address with component attributes street, city, state, and zip have nonatomic domains.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- a) i, ii and iii are in 3NF and iv is in BCNF
- b) i and ii are in BCNF and iii and iv are in 3NF
- c) All are in 3NF
- d) All are in BCNF

View Answer

Answer: d

Explanation: One of the more desirable normal forms that we can obtain is Boyce–Codd normal form (BCNF). It eliminates all redundancy that can be discovered based on functional dependencies.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- 4. Which one is based on multi-valued dependency:
- a) First
- b) Second
- c) Third
- d) Fourth

Answer: d

Explanation: One of the more desirable normal forms that we can obtain is Boyce–Codd normal form (BCNF). It eliminates all redundancy that can be discovered based on functional dependencies.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A \xrightarrow{-->}B, B --> A, AB --> C }
```

- 5. If a relation is in BCNF, then it is also in
- a) 1 NF
- b) 2 NF
- c) 3 NF
- d) All of the mentioned

View Answer

Answer: d

Explanation: Third normal form (3NF) relaxes this constraint slightly by allowing certain nontrivial functional dependencies whose left side is not a superkey.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- 6. If every non-key attribute is functionally dependent primary key, then the relation will be in
- a) First normal form
- b) Second normal form
- c) Third form
- d) Fourth normal form

View Answer

Answer: b

Explanation: Third normal form (3NF) relaxes this constraint slightly by allowing certain nontrivial functional dependencies whose left side is not a superkey.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- 7. If an attribute of a composite key is dependent on an attribute of the other composite key, a normalization called ______is needed.
- a) DKNF
- b) BCNF
- c) Fourth
- d) Third

View Answer

Answer: b

Explanation: BCNF eliminates all redundancy that can be discovered based on functional dependencies.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- 8. The term for information that describes what type of data is available in a database is:
- a) Data dictionary
- b) data repository
- c) Index data
- d) Metadata

View Answer

Answer: d

Explanation: Meta data is generally data about a data.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A --> B, B --> A, AB --> C }
```

- 9. A data type that creates unique numbers for key columns in Microsoft Access is:
- a) Autonumber
- b) Boolean
- c) Sequential key
- d) Sequential number

View Answer

Answer: a

Explanation: This can be taken as a primary key.

3. Consider the relation given below and ind the maximum normal form applicable to them

```
i. R(A, B) WITH productions { A --> B } ii. R(A, B) WITH productions { B --> A } iii. R(A, B) WITH productions {A -> B, B --> A } iv. R(A, B, C) WITH productions {A -->B, B --> A, AB --> C }
```

- 10. A dependency exist between two columns when
- a) Together they constitute a composite key for the table
- b) Knowing the value in one column determines the value stored in another column
- c) The table is in 3NF
- d) Together they constitute a foreign key

View Answer

Answer: a

Explanation: Given a set F of functional dependencies on a schema, we can prove that certain other functional dependencies also hold on the schema

a) First b) Second c) Third d) Fourth View Answer Answer: a Explanation: The first normal form is used to eliminate the duplicate information. 2. A table on the many side of a one to many or many to many relationship must: a) Be in Second Normal Form (3NF) b) Be in Third Normal Form (3NF) c) Have a single attribute key d) Have a composite key View Answer Answer d Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 3. Tables in second normal form (2NF): a) Eliminate all hidden dependencies b) Eliminate all phidden dependencies b) Eliminate and provide the composite key d) Have a composite key d) Have all non key fields depend on the whole primary key View Answer Answer: a Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 4. Which-one of the following statements about normal forms is FALSE? a) BCNF is stricter than 3 NF b) Lossless, dependency—preserving decomposition into 3 NF is always possible c) Loss less, dependency—preserving decomposition into BCNF is always possible d) Any relation with two attributes is BCNF View Answer Answer: a Explanation: We say that the decomposition is a lossless decomposition if there is no loss of information by replacing r (R) with two relation schemas r1(R1) andr2(R2). 5. Functional Dependencies are the types of constraints that are based on a) Key b) Key revisited c) None of the mentioned		
b) Second c) Third d) Fourth View Answer Answer: a Explanation: The first normal form is used to eliminate the duplicate information. 2. A table on the many side of a one to many or many to many relationship must: a) Be in Second Normal Form (2NF) b) Be in Third Normal Form (2NF) c) Have a single attribute key d) Have a single attribute key d) Have a someposite key View Answer Answer: Answer: Answer: Assert d Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 3. Tables in second normal form (2NF): a) Eliminate all hidden dependencies b) Eliminate the possibility of a insertion anomalies c) Have a composite key d) Have all non key fields depend on the whole primary key View Answer Answer: a Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 4. Which-one of the following statements about normal forms is FALSE? a) BCNF is stricter than 3 NF b) Lossless, dependency -preserving decomposition into 3 NF is always possible c) Loss less, dependency -preserving decomposition into BCNF is always possible d) Any relation with two attributes is BCNF View Answer Answer: c Explanation: We say that the decomposition is a lossless decomposition if there is no loss of information by replacing r (R) with two relation schemas r1(R1) andr2(R2). 5. Functional Dependencies are the types of constraints that are based on a) Key b) Key revisited c) None of the mentioned	1. In thenormal form, a composite attribute is converted to individual attribu	tes.
c) Third d) Fourth View Answer Answer: a Explanation: The first normal form is used to eliminate the duplicate information. 2. A table on the many side of a one to many or many to many relationship must: a) Be in Second Normal Form (2NF) b) Be in Third Normal Form (2NF) c) Have a single attribute key d) Have a composite key View Answer Answer: d Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 3. Tables in second normal form (2NF): a) Eliminate all hidden dependencies b) Eliminate the possibility of a insertion anomalies c) Have a composite key d) Have all non key fields depend on the whole primary key View Answer: a Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 4. Which-one ofthe following statements about normal forms is FALSE? a) BCNF is stricter than 3 NF b) Lossless, dependency -preserving decomposition into 3 NF is always possible c) Loss less, dependency - preserving decomposition into BCNF is always possible d) Any relation with two attributes is BCNF View Answer: c Explanation: We say that the decomposition is a lossless decomposition if there is no loss of information by replacing r (R) with two relation schemas r1(R1) andr2(R2). 5. Functional Dependencies are the types of constraints that are based on a) Key b) Key revisited c) Superset key d) None of the mentioned	a) First	
d) Fourth View Answer Answer: a Explanation: The first normal form is used to eliminate the duplicate information. 2. A table on the many side of a one to many or many to many relationship must: a) Be in Second Normal Form (2NF) b) Be in Third Normal Form (2NF) c) Have a somposite key d) Have a composite key View Answer Answer: d Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 3. Tables in second normal form (2NF): a) Eliminate all hidden dependencies b) Eliminate all hidden dependencies c) Have a composite key d) Have all non key fields depend on the whole primary key View Answer: Answer: a Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key. 4. Which-one of the following statements about normal forms is FALSE? a) BCNF is stricter than 3 NF b) Lossiess, dependency—preserving decomposition into 3 NF is always possible c) Loss less, dependency—preserving decomposition into BCNF is always possible d) Any relation with two attributes is BCNF View Answer: Answer: c Explanation: We say that the decomposition is a lossless decomposition if there is no loss of information by replacing r (R) with two relation schemas r1(R1) andr2(R2). 5. Functional Dependencies are the types of constraints that are based on a) Key b) Key revisited c) Superset key d) None of the mentioned	b) Second	
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d) None of the mentioned	b) Key revisited	
	c) Superset key	
View Answer	d) None of the mentioned	
	View Answer	
Answer: a	Answer: a	
	Explanation: Key is the basic element needed for the constraints.	

- b) Database modeling
- c) Normalization
- d) Decomposition

Answer: c

Explanation: Normalisation is the process of removing redundancy and unwanted data.

- 7. Which forms simplifies and ensures that there are minimal data aggregates and repetitive groups:
- a) 1NF
- b) 2NF
- c) 3NF
- d) All of the mentioned

View Answer

Answer: c

Explanation: The first normal form is used to eliminate the duplicate information.

- 8. Which forms has a relation that possesses data about an individual entity:
- a) 2NF
- b) 3NF
- c) 4NF
- d) 5NF

View Answer

Answer: c

Explanation: A Table is in 4NF if and only if, for every one of its non-trivial multivalued dependencies X \twoheadrightarrow Y, X is a superkey —that is, X is either a candidate key or a superset thereof.

- 9. Which forms are based on the concept of functional dependency:
- a) 1NF
- b) 2NF
- c) 3NF
- d) 4NF

View Answer

Answer: c

Explanation: The table is in 3NF if every non-prime attribute of R is non-transitively dependent (i.e. directly dependent) on every superkey of R.

For any pincode, there is only one city and state. Also, for given street, city and state, there is just one pincode. In normalization terms, empdt1 is a relation in

- a) 1 NF only
- b) 2 NF and hence also in 1 NF
- c) 3NF and hence also in 2NF and 1NF
- d) BCNF and hence also in 3NF, 2NF and 1NF

View Answer

Answer: b

Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key.

Database Questions and Answers - Functional-Dependency Theory

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

- 1. We can use the following three rules to find logically implied functional dependencies. This collection of rules is called
- a) Axioms
- b) Armstrong's axioms
- c) Armstrong
- d) Closure

View Answer

Answer: b

Explanation: By applying these rules repeatedly, we can find all of F+, given F.

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

- 2. Which of the following is not Armstrong's Axiom?
- a) Reflexivity rule
- b) Transitivity rule
- c) Pseudotransitivity rule
- d) Augmentation rule

View Answer

Answer: c

Explanation: It is possible to use Armstrong's axioms to prove that Pseudotransitivity rule is sound.

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

This type of decomposition is called

- a) Lossless decomposition
- b) Lossless-join decomposition
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: d

Explanation: Lossy-join decomposition is the decomposition used here .

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

This comes under

- a) Lossy-join decomposition
- b) Lossy decomposition
- c) Lossless-join decomposition
- d) Both Lossy and Lossy-join decomposition

View Answer

Answer: d

Explanation: Lossy-join decomposition is the decomposition used here .

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

5. There are two functional dependencies with the same set of attributes on the left side of the arrow:

A->BC

A->B

This can be combined as

- a) A->BC
- b) A->B
- c) B->C
- d) None of the mentioned

View Answer

Answer: a

Explanation: This can be computed as the canonical cover.

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

The number of superkeys of R is:

- a) 2
- b) 7
- c) 10
- d) 12

View Answer

Answer: c

Explanation: A superkey is a combination of columns that uniquely identifies any row within a relational database management system (RDBMS) table.

 $3. \ The \ relation \ employee (ID, name, street, Credit, street, city, salary) \ is \ decomposed \ into$

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

Which, if any, of the two queries above will correctly (in SQL2) get the desired set of employee ID's?

- a) Both I and II
- b) I only
- c) II only
- d) Neither I nor I

View Answer

Answer: a

Explanation: The query can be satisfied by any of the two options.

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

- a) 2
- b) 4
- c) 6

d) None of the mentioned

View Answer

Explanation: The SQL NATURAL JOIN is a type of EQUI JOIN and is structured in such a way that, columns with same name of associate tables will appear once only.

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

Then which of the following is the most restrictive, correct condition on the value of m?

- a) m = min(r,s)
- b) $0 \le m \le r + s$
- c) $min(r,s) \le m \le max(r,s)$
- d) $0 \le m \le \min(r,s)$

View Answer

Answer: d

Explanation: The value of m must lie between the min value of r and s and 0.

3. The relation employee(ID,name,street,Credit,street,city,salary) is decomposed into

```
employee1 (ID, name)
employee2 (name, street, city, salary)
```

Which of the following is not a key?

- a) A
- b) E
- c) B, C
- d) D

View Answer

Answer: c
Explanation: Here the keys are not formed by B and C.

Database Questions	and Answers – Algorithms for Decomposition
A relation is in	if an attribute of a composite key is dependent on an attribute of other composite key.
a) 2NF	
b) 3NF	
c) BCNF d) 1NF	
View Answer	
Answer: b	
Explanation: A relation is in	and 3 NF if an attribute of a composite key is dependent on an attribute of other composite key. (If an attribute of a natural tribute of other composite key then the relation is not in BCNF, hence it has to be decomposed.).
What are the desirable partition constraint	properties of a decomposition
b) Dependency preservation	n
c) Redundancy	
d) Security	
View Answer	
Answer: b	
Explanation: Lossless join ε	and dependency preserving are the two goals of the decomposition.
Consider the above condition a) Course id-> title, dept na b) Title-> dept name, credit c) Dept name-> credits d) Cannot be determined View Answer Answer: a	
5. The algorithm that takes a a) BCNF algorithm	a set of dependencies and adds one schema at a time, instead of decomposing the initial schema repeatedly is
b) 2NF algorithm	
c) 3NF synthesis algorithm	
d) 1NF algorithm View Answer	
view Aliswer	
Answer: c	
	ot uniquely defined, since a set of functional dependencies can have more than one canonical cover, and, further, in

- a) Primary key
- b) Null
- c) Unique
- d) Both Null and Unique

Answer: d

Explanation: Primary key contains both unique and not null constraints.

- 7. Which normal form is considered adequate for normal relational database design?
- a) 2NF
- b) 5NF
- c) 4NF
- d) 3NF

View Answer

Answer: d

Explanation: A relational database table is often described as "normalized" if it is in the Third Normal Form because most of the 3NF tables are free of insertion, update, and deletion anomalies.

- 8. Relation R with an associated set of functional dependencies, F, is decomposed into BCNF. The redundancy (arising out of functional dependencies) in the resulting set of relations is
- a) Zero
- b) More than zero but less than that of an equivalent 3NF decomposition
- c) Proportional to the size of F+
- d) Indeterminate

View Answer

Answer: b

Explanation: Redundancy in BCNF is low when compared to 3NF. For more details on BCNF.

in terms of normalization, this table is in

- a) 1NF
- b) 2NF
- c) 3NF
- d) None of the mentioned

View Answer

Answer: a

Explanation: Since the primary key is not given we have to derive the primary key of the table. Using the closure set of attributes we get the primary key as (F1, F2). From functional dependencies, "F1->F3, F2->F4", we can see that there is partial functional dependency therefore it is not in 1NF. Hence the table is in 1NF.

WIIHA

The relation schema R is

- a) in BCNF
- b) in 3NF, but not in BCNF
- c) in 2NF, but not in 3NF
- d) not in 2NF

View Answer

Answer: d

Explanation: From the closure set of attributes we can see that the key for the relation is AB. The FD B->G is a partial dependency, hence it is not in 2NF.

Database Questions and Answers – Multivalued Dependencies	
The normal form which satisfies multivalued dependencies and which is in BCNF is	
a) 4 NF	
b) 3 NF	
c) 2 NF	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: Fourth normal form is more restrictive than BCNF.	
Explanation. Fourth normal form is more restrictive than BCIVI.	
2. Which of the following is a tuple-generating dependencies?	
a) Functional dependency	
b) Equality-generating dependencies	
c) Multivalued dependencies	
d) Non-functional dependency	
View Answer	
Answer: c	
Explanation: Multivalued dependencies, do not rule out the existence of certain tuples. Instead, they require that other tuples of a	certain form be
present in the relation.	
3. The main task carried out in theis to remove repeating attributes to separate tables.	
a) First Normal Form	
b) Second Normal Form	
c) Third Normal Form	
d) Fourth Normal Form	
View Answer	
Answer: a	
Explanation: Multivalued dependencies, do not rule out the existence of certain tuples. Instead, they require that other tuples of a	certain form be
present in the relation.	
A NOUDE III III III AAAA 3/	
4. Which of the normal form is based on multivalued dependencies?	
a) First	
b) Second	
c) Third	
d) Fourth	
View Answer	
Answer: d	
Explanation: Multivalued dependencies, do not rule out the existence of certain tuples. Instead, they require that other tuples of a	certain form be
present in the relation.	
5. Which forms has a relation that massesses data shout an individual artificial	
5. Which forms has a relation that possesses data about an individual entity?	
a) 2NF	
b) 3NF c) 4NF	
d) 5NF	
View Answer	
1 1011 1 1110 1101	

 $Explanation: A \ Table \ is \ in \ 4NF \ if \ and \ only \ if, \ for \ every \ one \ of \ its \ non-trivial \ multivalued \ dependencies \ X \ \backslash two \ headright arrow \ Y, \ X \ is \ a \ superkey$

—that is, X is either a candidate key or a superset thereof.

- 6. If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from one of the following sources.
- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) Both A many-to-many relationship set and A multivalued attribute of an entity set

Answer: d

Explanation: For a many-to-many relationship set each related entity set has its own schema and there is an additional schema for the relationship set. For a multivalued attribute, a separate schema is created consisting of that attribute and the primary key of the entity set.

- 7. Which of the following has each related entity set has its own schema and there is an additional schema for the relationship set?
- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) None of the mentioned

View Answer

Answer: a

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

- 8. In which of the following, a separate schema is created consisting of that attribute and the primary key of the entity set.
- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) None of the mentioned

View Answer

Answer: b

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

- 9. Fifth Normal form is concerned with
- a) Functional dependency
- b) Multivalued dependency
- c) Join dependency
- d) Domain-key

View Answer

Answer: c

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

- 10. In 2NF
- a) No functional dependencies (FDs) exist
- b) No multivalued dependencies (MVDs) exist
- c) No partial FDs exist
- d) No partial MVDs exist

View Answer

Answer: c

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

Database Questions and Answers - Database Design Process

- 1. _____can help us detect poor E-R design.
- a) Database Design Process
- b) E-R Design Process
- c) Relational scheme
- d) Functional dependencies

View Answer

Answer: d

Explanation: For eg., Suppose an instructor entity set had attributes dept name and dept address, and there is a functional dependency dept name -> dept address.

- 2. If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from one of the following sources.
- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) Both A many-to-many relationship set and A multivalued attribute of an entity set

View Answer

Answer: d

Explanation: For a many-to-many relationship set each related entity set has its own schema and there is an additional schema for the relationship set. For a multivalued attribute, a separate schema is created consisting of that attribute and the primary key of the entity set.

- 3. Which of the following has each related entity set has its own schema and there is an additional schema for the relationship set.
- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) All of the mentioned

View Answer

Answer: a

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

- 4. In which of the following, a separate schema is created consisting of that attribute and the primary key of the entity set.
- a) A many-to-many relationship set
- b) A multivalued attribute of an entity set
- c) A one-to-many relationship set
- d) All of the mentioned

View Answer

Answer: b

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

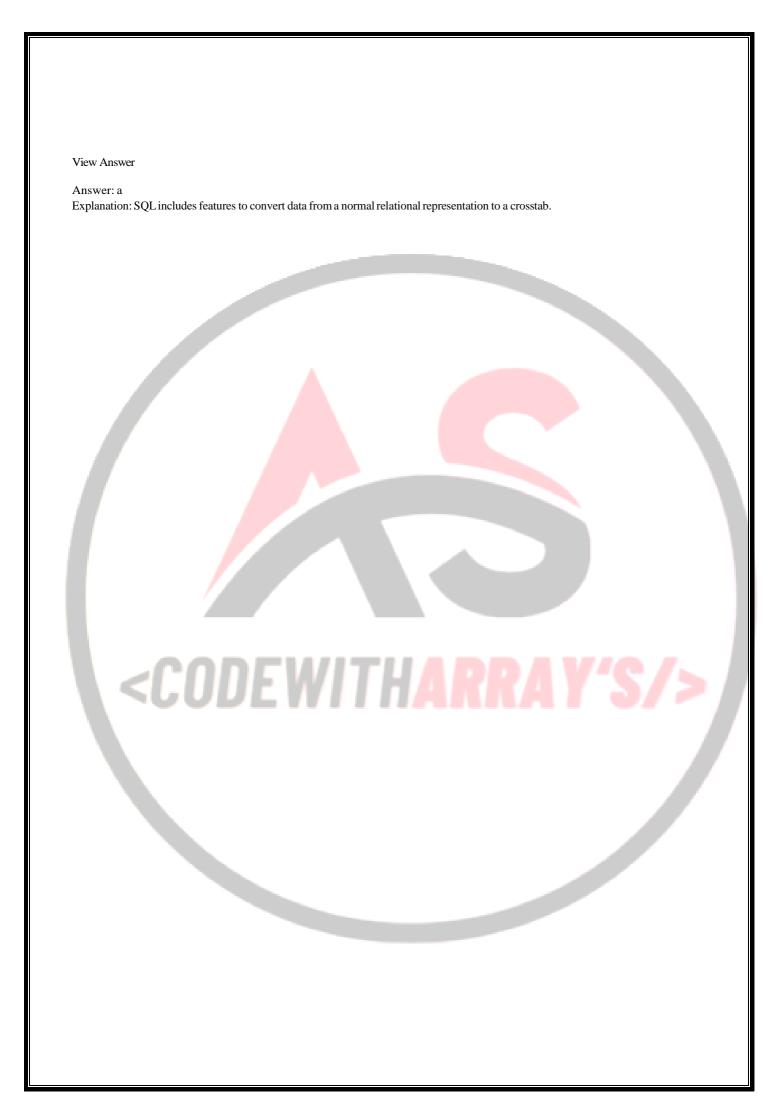
- 5. Suppose the user finds the usage of room number and phone number in a relational schema there is confusion. This is reduced by
- a) Unique-role assumption
- b) Unique-key assignment
- c) Role intergral assignment
- d) None of the mentioned

View Answer

Answer: a

Explanation: A desirable feature of a database design is the unique-role assumption, which means that each attribute name has a unique meaning in the database.

6. What is the best way to represent the attributes in a large database?
a) Relational-and
b) Concatenation
c) Dot representation d) All of the mentioned
View Answer
YICH THIS WEI
Answer: b
Explanation: Example inst sec and student sec.
7. Designers use which of the following to tune the performance of systems to support time-critical operations?
a) Denormalization
b) Redundant optimization
c) Optimization
d) Realization
View Answer
Answer: a
Explanation: The process of taking a normalized schema and making it nonnormalized is called denormalization.
8. In the schema (dept name, size) we have relations <i>total inst</i> 2007, <i>total inst</i> 2008. Which dependency have lead to this relation?
a) Dept name, year->size
b) Year->size
c) Dept name->size
d) Size->year
View Answer
Answer: a
Explanation: The process of taking a normalized schema and making it nonnormalized is called denormalization.
9. Relation dept year(dept name, total inst 2007, total inst 2008, total inst 2009). Here the only functional dependencies are from dept
name to the other attributes. This relation is in
a) Fourth NF
b) BCNF
c) Third NF
d) Second NF
View Answer
Answer: b
Explanation: BCNF has only one normal form.
Explanation, Bert has only one normal form.
10. Thus aof course data gives the values of all attributes, such as title and department, of all courses at a particular point in time.
a) Instance
b) Snapshot
c) Both Instance and Snapshot
d) All of the mentioned
View Answer
Answer: b Explanation: We use the term snapshot of data to mean the value of the data at a particular point in time.
Explanation. We use the term snapshot of data to mean the value of the data at a particular point in time.
11. Representations such as the in the dept year relation, with one column for each value of an attribute, are called _they are widely
used in spreadsheets and reports and in data analysis tools.
a) Cross-tabs
b) Snapshot
c) Both Cross-tabs and Snapshot
d) All of the mentioned



Database Questions and Answers - Application Programs and User Interfaces

- 1. An approach to website design with the emphasis on converting visitors to outcomes required by the owner is referred to as:
- a) Web usability
- b) Persuasion
- c) Web accessibility
- d) None of the mentioned

View Answer

Answer: b

Explanation: In computing, graphical user interface is a type of user interface that allows users to interact with electronic devices.

- 2. A method of modelling and describing user tasks for an interactive application is referred to as:
- a) Customer journey
- b) Primary persona
- c) Use case
- d) Web design persona

View Answer

Answer: c

Explanation: The actions in GUI are usually performed through direct manipulation of the graphical elements.

- 3. Information architecture influences:
- a) Answer choice
- b) Site structure
- c) Labeling
- d) Navigation design

View Answer

Answer: b

Explanation: The actions in GUI are usually performed through direct manipulation of the graphical elements.

- 4. Also known as schematics, a way of illustrating the layout of an individual webpage is a:
- a) Wireframe
- b) Sitemap
- c) Card sorting
- d) Blueprint

View Answer

Answer: a

Explanation: An application programming interface specifies how some software components should interact with each other.

- 5. A graphical or text depiction of the relationship between different groups of content on a website is referred to as a:
- a) Wireframe
- b) Blueprint
- c) Sitemap
- d) Card sorting

View Answer

Answer: c

Explanation: An application programming interface specifies how some software components should interact with each other.

- 6. Blueprints are intended to:
- a) Prototype of the screen layout showing navigation and main design elements
- b) Show the grouping of pages and user journeys

- c) Indicate the structure of a site during site design and as a user feature
- d) Prototype typical customer journeys or clickstreams through a website

Answer: c

Explanation: A blueprint is a reproduction of a technical drawing, documenting an architecture or an engineering design, using a contact print process.

- 7. Storyboards are intended to:
- a) Indicate the structure of a site during site design and as a user feature
- b) Prototype of the screen layout showing navigation and main design elements
- c) Integrate consistently available components on the webpage (e.g. navigation, search boxes)
- d) Prototype typical customer journeys or click streams through a website

View Answer

Answer: d

Explanation: An application programming interface specifies how some software components should interact with each other.

- 8. Which of the following occupies boot rec<mark>ord of hard and</mark> floppy disks and activated during computer startup?
- a) Worm
- b) Boot sector virus
- c) Macro virus
- d) Virus

View Answer

Answer: b

Explanation: A blueprint is a reproduction of a technical drawing, documenting an architecture or an engineering design, using a contact print process.

- 9. A graphical or text depiction of the relationship between different groups of content on a website is a:
- a) Page template
- b) Wireframe
- c) Site map
- d) Cascading style sheet (CSS)

View Answer

Answer: c

Explanation: In computing, graphical user interface is a type of user interface that allows users to interact with electronic devices.

- 10. Which of the following is a description of information organization schemes?
- a) Minimising the number of clicks needed to access relevant content
- b) Providing an overall design to a site consistent with the positioning of the products and services
- c) The menu options chosen to group and categorize information
- d) Providing specific content and services appropriate to different audience members

View Answer

Answer: c

Explanation: In computing, graphical user interface is a type of user interface that allows users to interact with electronic devices.

Database Questions and Answers – Web Fundamentals
1. Which of the following is a valid uniform resource locator? a) http://www.acm.org/sigmod b) www.google.com c) www.ann.in d) http://www.acm.org/sigmod/ View Answer
Answer: a Explanation: A uniform resource locator (URL) is a globally unique name for each document that can be accessed on the Web.
2. http://www.google.com/search?q=silberschatz In the above URL which one is the argument which is used for processing of the URL? a) google b) google.com c) search d) q=silberschatz View Answer
Answer: d Explanation: Argument is always placed after ? symbol.
3. HTTP defines two ways in which values entered by a user at the browser can be sent to the Web server. The _method encodes the values as part of the URL. a) Post b) Get c) Read d) Argument View Answer Answer: b Explanation: For example, if the Google search page used a form with an input parameter named q with the get method, and the user typed in the string "silberschatz" and submitted the form, the browser would request the following URL from the Web server: http://www.google.com/search?q=silberschatz.
4. Ais a program running on the server machine, which accepts requests from a Web browser and sends back results in the form of HTML documents. a) HTML b) HTTP c) Web Server d) Web browser View Answer Answer: c Explanation: The browser and Web server communicate via HTTP. Web servers provide powerful features, beyond the simple transfer of
documents.
 5. The application program typically communicates with a database server, throughor other protocols, in order to get or store data. a) JDBC b) ODBC c) All of the mentioned d) None of the mentioned View Answer

Explanation: The common gateway interface (CG	<u> </u>
6. This extra information is usually maintained in t	ne form of aat the client.
a) Cookie	
b) History c) Remainder	
d) None of the mentioned	
View Answer	
Answer: a Explanation: A cookie is simply a small piece of te	xt containing identifying information and with an associated name.
7. Which of the following is not true about HTMI	.?
a) <meta/>	
b) <meta/>	
c) <metadata></metadata>	
d) <metadata '="" name=""></metadata>	
View Answer	
Answer: b	
Explanation: Meta data is the data about data whi	ch is included in the meta data tag.
M	
8. Html code contains:	
a) Tags	
b) Attributes c) Elements	
d) All of the mentioned	
View Answer	
Answer: d	
Explanation: <> are tags, size is a attribute.	
O. 114-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
9. Html document must always be saved with:	
a) .html b) .htm	
c) .doc	
d) Both .html & .htm	
View Answer	
Answer: d	
Explanation: .doc is used only for the word docur	nent format.
10. How many levels of headings are in html:	
a) 2	
b) 7	
c) 6	
d) 4	
View Answer	
Answer: c	

Database Question	ns and Answers – Servlets and JSP
1. The Java	specification defines an application programming interface for communication between the Web server and the
application program.	
a) Servlet	
b) Server c) Program	
d) Randomize	
View Answer	
A	
Answer: a Explanation: Servlets are	e commonly used to generate dynamic responses to HTTP requests.
The doGet() method is a) request.getParamete	in the example extracts values of the parameter's type and number by using
a) request.getParamete b) request.setParamete	
c) responce.getParame	
d) responce.getAttribute	
View Answer	
Answer: a Explanation: These metl	hods uses these values to run a query against a database.
3. How many JDBC dri	iver types <mark>doe</mark> s Sun define?
a) One	
b) Two	
c) Three	
d) Four View Answer	
VICW AllSWCI	
Answer: d	
Explanation: JBDB.Driv	rerManager.getConnection() is used to get the connection to the database.
4. Which IDBC driver	Гуре(s) can be used in either applet or servlet code?
a) Both Type 1 and Typ	
b) Both Type 1 and Typ	
c) Both Type 3 and Typ	e 4
d) Type 4 only	
View Answer	
Answer: c	
Explanation: In a Type	3 driver, a three-tier approach is used to accessing databases. The JDBC clients use standard network sockets to
	iddleware application server. In a Type 4 driver, a pure Java-based driver that communicates directly with vendor's
database through sock	et connection.
	rty is used to create a surrogate key in MySQL?
a) UNIQUE	
b) SEQUENCE c) AUTO_INCREMEI	NT
d) None of the mention	
View Answer	
A	
Answer: c	e key in a database is a unique identifier for either an entity in the modeled world or an object in the database.

- 6. A JSP is transformed into a(n):
- a) Java applet
- b) Java servlet
- c) Either 1 or 2 above
- d) Neither 1 nor 2 above

Answer: b

Explanation: Servlets are commonly used to generate dynamic responses to HTTP requests.

- 7. Which JDBC driver Type(s) is(are) the JDBC-ODBC bridge?
- a) Type 1
- b) Type 2
- c) Type 3
- d) Type 4

View Answer

Answer: a

Explanation: In a Type 1 driver, a JDBC bridge is used to access ODBC drivers installed on each client machine.

- 8. What programming language(s) or scripting language(s) does Java Server Pages (JSP) support?
- a) VBScript only
- b) Jscript only
- c) Java only
- d) All of the mentioned

View Answer

Answer: c

Explanation: JSP primarily uses Java for certain codes.

- 9. What is bytecode?
- a) Machine-specific code
- b) Java code
- b) Java code
 c) Machine-independent code
 d) None of the mentioned

View Answer

Answer: c

Explanation: Java bytecode is the form of instructions that the Java virtual machine executes. Each bytecode opcode is one byte in length, although some require parameters, resulting in some multi-byte instructions.

- 10. Where is metadata stored in MySQL?
- a) In the MySQL database metadata
- b) In the MySQL database metasql
- c) In the MySQL database mysql
- d) None of the mentioned

View Answer

Answer: c

Explanation: Metadata contains data about other data which is given in the <meta>...</meta> tags.

Database Ques	tions and Answers – Application Architectures
1. Which of the follo	wing is true for Seeheim model?
	stracted from dialogue and Application
	Dialogue is abstracted from Application Application is abstracted from Dialogue
d) None of the ment	
View Answer	
Answer: a	
	ation is abstracted from dialogue and application.
	operation is used in Model view controller?
a) Is a Decompositib) Part Whole Deco	
c) All of the mention	
d) None of the ment	oned
View Answer	
Answer: b	
	ole decomposition is applied to MVC.
	efers to the successive memory words and the machine is called as
a) word addressable b) byte addressable	
c) bit addressable	
d) Terra byte addres	sable
View Answer	
Answer: a	
	ole decomposition is applied to MVC.
1	·nnrwitiiannavic/_
	which deals with user interaction is calledlayer.
a) Business logic	ODE WILLIAM OF
b) Presentationc) User interaction	
d) Data access	
View Answer	
Answer: b	gle application may have several different versions of this layer, corresponding to distinct kinds of interfaces such as Web
	nterfaces of mobile phones, which have much smaller screens.
5. The	layer, which provides a high-level view of data and actions on data.
a) Business logic	
b) Presentation c) User interaction	
d) Data access	
View Answer	
Answer: a	
	gle application may have several different versions of this layer, corresponding to distinct kinds of interfaces such as Web
	nterfaces of mobile phones, which have much smaller screens.

a) Business logic	
b) Presentation	
c) User interaction	
d) Data access	
View Answer	
Answer: d	
Explanation: Many applications use an object-oriented language to code the business-logic layer, and use an object-oriented model of code the business-logic layer.	lata,
while the underlying database is a relational database.	
7. Thesystem is widely used for mapping from Java objects to relations.	
a) Hibernate	
b) Object oriented	
c) Objective	
d) None of the mentioned	
View Answer	
Answer: a	
Explanation: In Hibernate, the mapping from each Java class to one or more relations is specified in a mapping file.	
8. Which among the following are the functions that any system with a user interface must provide?	
a) Presentation	
b) Dialogue	
c) All of the mentioned d) None of the mentioned	
View Answer	
View Allswei	
Answer: a	
Explanation: Presentation and Application are the functions that any system with a user interface must provide.	
9. Which of the following is the main task accomplished by the user?	
a) Compose a document b) Create a spread sheet	
c) Send mail	
d) All of the mentioned	
View Answer	
VICW Allswei	
Answer: d	
Explanation: All of the mentioned are the main task accomplished by the user.	
10 1171 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7
10. What are the portability concerns founded in Seeheim model?	
a) Replacing the presentation toolkit	
b) Replacing the application toolkit	
c) Replacing the dialogue toolkit	
d) Replacing the presentation & application toolkit	

Explanation: The portability concerns founded in Seeheim model are- Replacing the presentation toolkit and Replacing the application toolkit.

View Answer

Database Questions and Answers - Rapid Application Development

- 1. Which schema object instructs Oracle to connect to a remotely access an object of a database?
- a) Sequence
- b) Remote link
- c) Database link
- d) Data link

View Answer

Answer: d

Explanation: A database link (DBlink) is a definition of how to establish a connection from one Oracle database to another.

- 2. DML changes are
- a) Insert
- b) Update
- c) Create
- d) Both Insert and Update

View Answer

Answer: d

Explanation: Create is a DDL operation.

- 3. Which of the following object types below cannot be replicated?
- a) Data
- b) Trigger
- c) View
- d) Sequence

View Answer

Answer: d

Explanation: Sequence is a series of items which is like a unique index.

- 4. How to force a log switch?
- a) By using ALTER SYSTEM LOG
- b) By using ALTER SYSTEM SWITCH LOGFILE
- c) By using ALTER SYSTEM SWITCH LOGS
- d) By using ALTER SYS LOGFILES

View Answer

Answer: b

Explanation: ALTER SYSTEM ARCHIVE LOG CURRENT is the best practice for production backup scripts with RMAN.

- a) 100 / 0.15
- b) quantity 100
- c) 35*20
- d) 0.15-35

View Answer

Answer: a

Explanation: According to the precedence of expression as in BODMAS the expression evaluated.

- 6. The ORDER BY clause can only be used in
- a) SELECT queries
- b) INSERT queries
- c) GROUP BY queries

d) HAVING queries

View Answer

Answer: a

Explanation: SELECT column_name,column_name

FROM table_name

ORDER BY column_name,column_name ASC|DESC;.

- 7. Which of the following rule below are categories of an index?
- a) Column and Functional
- b) Multiple Column and functional
- c) Column, Multiple Column and functional
- d) None of the mentioned

View Answer

Answer: a

Explanation: The CREATE INDEX statement is used to create indexes in tables.

- 8. What is the purpose of SMON background process?
- a) Performs crash recovery when a failed instance starts up again
- b) Performs recovery when a user process fails
- c) Writes redo log entries to disk
- d) None of the mentioned

View Answer

Answer: a

Explanation: SMON (System MONitor) is an Oracle background process created when you start a database instance.

- 9. Which of the following queries are legal?
- a) SELECT deptno, count(deptno) FROM emp GROUP BY ename;
- b) SELECT deptno, count (deptno), job FROM emp GROUP BY deptno;
- c) SELECT deptno, avg(sal) FROM emp;
- d) SELECT deptno, avg(sal) FROM emp GROUP BY deptno;

View Answer

Answer: d

Explanation: For aggregate functions group by clause is necessary.

- 10. Which of the following queries displays the sum of all employee salaries for those employees not making commission, for each job, including only those sums greater than 2500?
- a) select job, sum(sal) from emp where sum(sal) > 2500 and comm is null;
- b) select job, sum(sal) from emp where comm is null group by job having sum(sal) > 2500;
- c) select job, sum(sal) from emp where sum(sal) > 2500 and comm is null group by job;
- d) select job, sum(sal) from emp group by job having sum(sal) > 2500 and comm is not null;

View Answer

Answer: b

Explanation: For aggregate functions group by clause is necessary.

Database Questions and Answers – Application Performance

- 1. The indirect change of the values of a variable in one module by another module is called
- a) Internal change
- b) Inter-module change
- c) Side effect
- d) Side-module update

View Answer

Answer: c

Explanation: The module of the search tree and the flow is directed by its values.

- 2. Which of the following data structure is not linear data structure?
- a) Arrays
- b) Linked lists
- c) Arrays & Linked lists
- d) None of the mentioned

View Answer

Answer: d

Explanation: Both array and linked lists are in data structure concepts.

- 3. Which of the following data structure is linear data structure?
- a) Trees
- b) Graphs
- c) Arrays
- d) None of the mentioned

View Answer

Answer: c

Explanation: Tree and graphs are not linear.

- 4. Which of the following criterion is NOT written using the proper syntax?
- a) "Haris"
- b) <500
- c) NO VALUE
- d) Between #1/1/2000# and #12/31/2000#

View Answer

Answer: c

Explanation: NO VALUE cannot be specified.

- 5. The operation of processing each element in the list is known as
- a) Sorting
- b) Merging
- c) Inserting
- d) Traversal

View Answer

Answer: d

Explanation: There are several types of traversals.

- 6. Finding the location of the element with a given value is:
- a) Traversal
- b) Search

- c) Sort
- d) None of the mentioned

Answer: b

Explanation: Search is performed by traversing through the tree.

- 7. Arrays are best data structures
- a) For relatively permanent collections of data
- b) For the size of the structure and the data in the structure are constantly changing
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: a

Explanation: The operator tree has a tree like format where the evaluation starts from root of the tree.

- 8. Linked lists are best suited
- a) For relatively permanent collections of data
- b) For the size of the structure and the data in the structure are constantly changing
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: b

Explanation: A linked list is a data structure consisting of a group of nodes which together represent a sequence.

- 9. Each array declaration need not give, implicitly or explicitly, the information about
- a) The name of array
- b) The data type of array
- c) The first data from the set to be stored
- d) The index set of the array

View Answer

Answer: c

Explanation: The operator tree has a tree like format where the evaluation starts from root of the tree.

- 10. The elements of an array are stored successively in memory cells because
- a) By this way computer can keep track only the address of the first element and the addresses of other elements can be calculated
- b) The architecture of computer memory does not allow arrays to store other than serially
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: a

Explanation: Memory is always allotted in order.

1. Inattacks, the attacker manages to get an application to execute an SQL query created by the attacker.	
a) SQL injection	
b) SQL	
c) Direct d) Application	
View Answer	
Answer: a	
Explanation: Application security has to deal with several security threats and issues beyond those handled by SQL authorization.	
2. A Web site that allows users to enter text, such as a comment or a name, and then stores it and later display it to other users, is poten	ntially
vulnerable to a kind of attack called aattack.	
a) Two-factor authentication	
b) Cross-site request forgery	
c) Cross-site scripting	
d) Cross-site scoring scripting View Answer	
View Aliswei	
Answer: c	
Explanation: In such an attack, a mali <mark>cious user</mark> enters code written in a client-side scripting language such as JavaScript or Flash inste	ad of
entering a valid name or commen <mark>t.</mark>	
authenticated. a) Two-factor authentication b) Cross-site request forgery c) Cross-site scripting d) Cross-site scoring scripting	
Answer: b CONFWITHARDA VC/S	
Answer: b Explanation: Cross-site request forgery, also known as a one-click attack or session riding and abbreviated as CSRF or XSRF. 4. Many applications use where two independent factors are used to identify a user.	
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6. A singlefurther allows the user to be authenticated once, and multiple applications can then verify the user's identity
through an authentication service without requiring reauthentication.
a) OpenID
b) Sign-on system
c) Security Assertion Markup Language (SAML)
d) Virtual Private Database (VPD)
View Answer
Answer: b
Explanation: Once the user logged in at one site, he does not have to enter his user name and password at other sites that use the same single
sign-on service.
7. Theis a standard for exchanging authentication and authorization information between different security domains,
provide cross-organization single sign-on.
a) OpenID
b) Sign-on system c) Security Assertion Markup Language (SAML)
d) Virtual Private Database (VPD)
View Answer
VICW Allower
Answer: c
Explanation: The user's password and other authentication factors are never revealed to the application, and the user need not register explicit
with the application.
8. Thestandard is an alternative for single sign-on across organizations, and has seen increasing acceptance in recent years.
a) OpenID
b) Single-site system
c) Security Assertion Markup Language (SAML)
d) Virtual Private Database (VPD)
View Answer
Answer: a
Explanation: The user's password and other authentication factors are never revealed to the application, and the user need not register explicit
with the application.
A SCUDE WILLHAMMA I 3/2/
9allows a system administrator to associate a function with a relation; the function returns a predicate that must be added
to any query that uses the relation.
a) OpenID
b) Single-site system
c) Security Assertion Markup Language (SAML)
d) Virtual Private Database (VPD)
View Answer
Answer: d
Explanation: Some database systems provide mechanisms for fine-grained authorization.
2. Aprillation. Some database systems provide mechanisms for this grained database.
10. VPD provides authorization at the level of specific tuples, or rows, of a relation, and is therefore said to be amechanism
a) Row-level authorization
b) Column-level authentication
c) Row-type authentication
d) Authorization security
View Answer
Answer: a
Explanation: Oracle Virtual Private Database (VPD) allows a system administrator to associate a function with a relation.

	nd Answers – Encryption and Its Applications
1. is widely	ed today for protecting data in transit in a variety of applications such as data transfer on the Internet, and o
cellular phone networks.	to today 101 protecting data in a state of or approximons such as data attained on the internet, and o
a) Encryption	
b) Data mining	
c) Internet Security	
d) Architectural security	
View Answer	
A	
Answer: a	o used to carry out other tasks, such as authentication.
Explanation. Encryption is a	b used to carry out other tasks, such as authentication.
2. In a database where the en	eryption is applied the data is cannot be handled by the unauthorised user without
a) Encryption key	
b) Decryption key	
c) Primary key	
d) Authorised key	
View Answer	
Answer: b	
	age is intercepted by an enemy, the enemy, not knowing the key, will not be able to decrypt and understand the
message.	ge is intercepted by all enemy, the enemy, not knowing the key, will not be use to decrypt and understand a
d) None of the mentioned View Answer	rameter of the algorithm called the encryption key
Answer: d Explanation: Here a, b and c	are the properties have to be present in a good design of an encryption technique.
I LAG	PETTILITATION OF
	ncryption key is used to encrypt and decrypt the data?
a) Public key	
b) Private keyc) Symmetric key	
d) Asymmetric key	
View Answer	
View / inswer	
Answer: c	
Explanation: In public-key (so known as asymmetric-key) encryption techniques, there are two different keys, the public key and the pr
key, used to encrypt and d	crypt the data.
5 Encruption of small value	such as identifiers or names, is made complicated by the possibility of
a) Dictionary attacks	such as identifiers of names, is made complicated by the possibility of
b) Database attacks	
c) Minor attacks	
d) Random attacks	
View Answer	
View Answer	
View Answer Answer: a	en particularly if the encryption key is publicly available.

- 6. Which one of the following uses a 128bit round key to encrypt the data using XOR and use it in reverse to decrypt it?
- a) Round key algorithm
- b) Public key algorithm
- c) Advanced Encryption Standard
- d) Asymmetric key algorithm

Answer: c

Explanation: The standard is based on the Rijndael algorithm.

- 7. Which of the following requires no password travel across the internet?
- a) Readable system
- b) Manipulation system
- c) Challenge-response system
- d) Response system

View Answer

Answer: c

Explanation: The database system sends a challenge string to the user. The user encrypts the challenge string using a secret password as encryption key and then returns the result. The database system can verify the authenticity of the user by decrypting the string with the same secret password and checking the result with the original challenge string.

- 8. Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
- a) Not true, the message can also be decrypted with the Public Key
- b) A so called "one way function with back door" is applied for the encryption
- c) The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key
- d) The encrypted message contains the function for decryption which identifies the Private Key

View Answer

Answer: b

Explanation: An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely without this information. The information for the back door is contained in the private Key.

- 9. Which is the largest disadvantage of symmetric Encryption?
- a) More complex and therefore more time-consuming calculations
- b) Problem of the secure transmission of the Secret Key
- c) Less secure encryption function
- d) Isn't used any more

View Answer

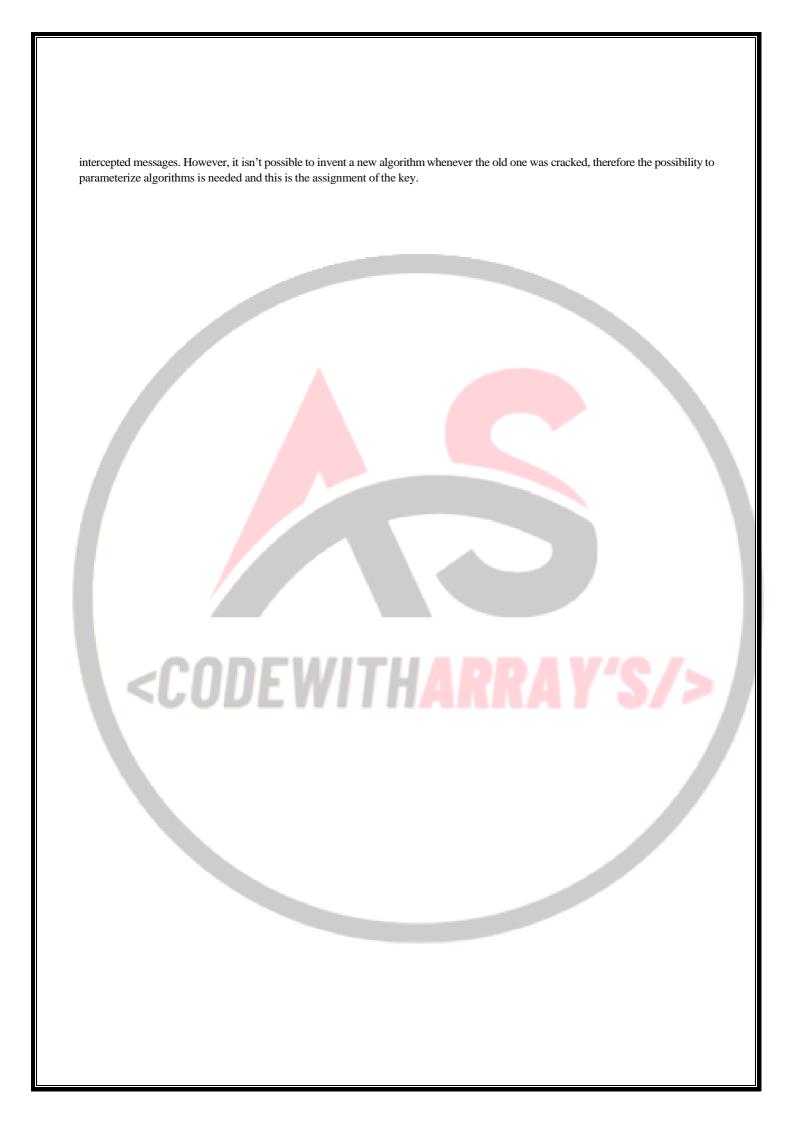
Answer: b

Explanation: As there is only one key in the symmetrical encryption, this must be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.

- 10. Which is the principle of the encryption using a key?
- a) The key indicates which function is used for encryption. Thereby it is more difficult to decrypt an intercepted message as the function is unknown
- b) The key contains the secret function for encryption including parameters. Only a password can activate the key
- c) All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption
- d) The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption View Answer

Answer: b

Explanation: The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack



Database Questions	and Answers – Physical Storage Media
1. Which of the following i	s a physical storage media?
a) Tape Storage	
b) Optical Storage	
c) Flash memory	
d) All of the mentioned	
View Answer	
Answer: d	
	nedia are classified by the speed with which data can be accessed, by the cost per unit of data to buy the medium,
and by the medium's relia	
2. The is the f	astest and most costly form of storage, which is relatively small; its use is managed by the computer system hardwa
a) Cache	
b) Disk	
c) Main memory	
d) Flash memory	
View Answer	
Answer: a	e is easy to access because it is closer to the processor.
Explanation: Cache storage	Tis clasy to decess occurse it is closer to the processor.
b) Disk c) Main memory d) Secondary memory View Answer Answer: c	
Explanation: The contents	of main memory are usually lost if a power failure or system crash occurs.
4. The flash memory storage	e used are
a) NOR Flash	
b) OR Flash c) AND Flash	
d) All of the mentioned	
View Answer	
View rinswer	
Answer: a	
Explanation: NAND flash	has a much higher storage capacity for a given cost, and is widely used for data storage in devices such as camera
music players, and cell pl	iones.
	ngly being used in server systems to improve performance by caching frequently used data, since it provides faster er storage capacity than main memory.
a) Flash memory	
b) Disk	
c) Main memory	
d) Secondary memory	
View Answer	
Answer: a	
Answer: a Explanation: Flash memor	is of two types – NAND and NOR.

. Which is the cheapest memory device in terms of costs/ bit?	
) Semiconductor memory	
) Magnetic disks	
Compact disks	
) Magnetic tapes	
Yiew Answer	
answer: c	
xplanation: Compact disk is used for easy storage at lower cost.	
. The primary medium for the long-term online storage of data is the	where the entire database is stored on magnetic disk.
) Semiconductor memory	
) Magnetic disks	
) Compact disks	
) Magnetic tapes	
iew Answer	
inswer: b	
xplanation: The system must move the data from disk to main memory so that	at they can be accessed.
Application. The system must move the data from disk to main memory so the	at they can be decessed.
	at can be loaded into one of the drives automatically (by a robo
rm) on demand.	
Tape Storage	
) Jukebox	
) Flash memory	
) All of the mentioned 'iew Answer	
lew Allswei	
nswer: b	
xplanation: The most popular form of optical disks are CD and DVD.	
. There are "record-once" versions of the compact disk and digital video disk	k, which can be written only once; such disks are also called
disks.	
) Write-once, read-many (WORM)	
) CD-R	
) DVD-W	
) CD-ROM	
iew Answer	
answer: a	
explanation: There are also "multiple-write" versions of compact disk (called DVD-RAM), which can be written multiple times.	CD-RW) and digital video disk (DVD-RW, DVD+RW, and
O. Tape storage is referred to asstorage.	
) Direct-access	
) Random-access	
) Sequential-access	
All of the mentioned	
iew Answer	
inswer: c	
nswer: c xplanation: Tape storage is used primarily for backup and archival data.	

Database Questions and	l Answers – Magnetic Disk and Flash Storage
1. In magnetic disks a) Read–write head b) Read-assemble head c) Head–disk assemblies d) Disk arm View Answer	tores information on a sector magnetically as reversals of the direction of magnetization of the magnetic material
Answer: d Explanation: Each side of a platt	er of a disk has a read—write head that moves across the platter to access different tracks.
2. A is the smalles a) Track b) Spindle c) Sector d) Platter View Answer Answer: c	st unit of information that can be read from or written to the disk.
	logically divided into tracks, which are subdivided into sectors.
a) Read-disk assemblies b) Head-disk assemblies c) Head-write assemblies d) Read-read assemblies View Answer	a spindle and the heads mounted on a disk arm are together known as er of a disk has a read–write head that moves across the platter to access different tracks.
4. The disk controller uses a) Checksum b) Unit drive c) Read disk d) Readsum View Answer	at each sector to ensure that the data is not corrupted on data retrieval.
Answer: a Explanation: A disk controller in	nterfaces between the computer system and the actual hardware of the disk drive.
5is the time from v a) Access time b) Average seek time c) Seek time d) Rotational latency time View Answer	when a read or write request is issued to when data transfer begins.
Answer: a	

b) Average seek time
c) Seek time
d) Rotational latency time
View Answer
Answer: c Explanation: Typical seek times range from 2 to 30 milliseconds, depending on how far the track is from the initial arm position.
7 is around one-half of the maximum seek time. a) Access time
b) Average seek time
c) Seek time
d) Rotational latency time
View Answer
Answer: b
Explanation: Average seek times currently range between 4 and 10 milliseconds, depending on the disk model.
8. Once the head has reached the desired track, the time spent waiting for the sector to be accessed to appear under the head is called the
a) Access time
b) Average seek time
c) Seek time
d) Rotational latency time
View Answer
Answer: d
Explanation: Rotational speeds of disks today range from 5400 rotations per minute (90 rotations per second) up to 15,000 rotations per
minute (250 rotations per second), or, equivalently, 4 milliseconds to 11.1 milliseconds per rotation.
9. In Flash memory, the erase operation can be performed on a number of pages, called anat once, and takes about 1 to 2
milliseconds.
a) Delete block
b) Erase block
c) Flash block d) Read block
View Answer
View Allswei
Answer: b
Explanation: The size of an erase block (often referred to as just "block" in flash literature) is usually significantly larger than the block size of the
storage system.
10. Hybrid disk drives are hard-disk systems that combine magnetic storage with a smaller amount of flash memory, which is used as a cache
for frequently accessed data.
a) Hybrid drivers
b) Disk drivers
c) Hybrid disk drivers
d) All of the mentioned
View Answer
Answer: b
Explanation: Frequently accessed data that are rarely updated are ideal for caching in flash memory.

Database Question	ns and Answers – RAID	
1. Which level of RAID r	refers to disk mirroring with block striping?	
a) RAID level 1		
b) RAID level 2		
c) RAID level 0 d) RAID level 3		
View Answer		
Answer: a		
Explanation: RAID level	1 refers to disk mirroring with block striping.	
2. Optical disk technolog	ev uses	
a) Helical scanning	50 · · · ·	
b) DAT		
c) A laser beam		
d) RAID		
View Answer		
Answer: d		
Explanation: Redundant A	Array of Inexpensive Disks.	
a) Stripingb) Dividingc) Mirroringd) DividingView Answer	we can improve the transfer rate as well bydata across multiple disks.	
Answer: a Explanation: Data striping	g consists of splitting the bits of each byte across multiple disks; such striping is called bitlevel strip	ping.
a) Byte level strippingb) Raid level stripping	owing is a Stripping technique?	
c) Disk level strippingd) Block level stripping		
View Answer		
Answer: d		
Explanation: Block-level numbers.	el striping stripes blocks across multiple disks. It treats the array of disks as a single large disk, and	d it gives blocks logica
numbers.		
5. The RAID level which	n mirroring is done along with stripping is	
a) RAID 1+0	Tamioning is using manusarpping is	
b) RAID 0		
c) RAID 2		
d) Both RAID 1+0 and R	RAID 0	
View Answer		
View Answer		
Answer: d	vithout striping can also be used with arrays of disks, to give the appearance of a single large, relia	

b) 1
c) 2
d) 0+1
View Answer
Answer: d Explanation: Mirroring without striping can also be used with arrays of disks, to give the appearance of a single large, reliable disk.
Explanation. Will forming without surphing can also be used with arrays of disks, to give the appearance of a single large, remade disk.
7partitions data and parity among all N+1 disks, instead of storing data in N-disks and parity in one disk.
a) Block interleaved parity
b) Block interleaved distributed parity
c) Bit parity
d) Bit interleaved parity
View Answer
Answer: b
Explanation: In level 5, all disks can participate in satisfying read requests, unlike RAID level 4, where the parity disk cannot participate, so leve 5 increases the total number of requests that can be met in a given amount of time.
8. Hardware RAID implementations permitthat is, faulty disks can be removed and replaced by new ones without turning power
off.
a) Scrapping
b) Swapping
c) Hot swapping
d) None of the mentioned
View Answer
Answer: c
Explanation: Hot
swapping reduces the mean time to repair since replacement of a disk does not have to wait until a time when the system can be shut down.
9is popular for applications such as storage of log files in a database system since it offers the best write performance.
a) RAID level 1
b) RAID level 2
c) RAID level 0
d) RAID level 3
View Answer
Answer: a
Explanation: RAID level 1 refers to disk mirroring with block striping.
2. parameter as 10 to 1 to to to the minoring with cook outpung.
10 which increases the number of I/O operations needed to write a single logical block, pays a significant time penalty in
terms of write performance.
a) RAID level 1
b) RAID level 2
c) RAID level 5
d) RAID level 3
View Answer
Answer: a
Explanation: In level 5, all disks can participate in satisfying read requests, unlike RAID level 4, where the parity disk cannot participate, so level 5 in a second to total number of a great short and he may be not in a given any part of time.
5 increases the total number of requests that can be met in a given amount of time.

Database Questions and Answers – Tertiary Stor	rage
Tertiary storage is built with:	
a) a lot of money	
b) unremovable media	
c) removable media	
d) secondary storage	
View Answer	
Answer: c	
	will mount (insert) and dismount removable mass storage media into a storage
device according to the system's demands; this data is often cop	
2. Operating system is responsible for	
a) disk initialization	
b) booting from disk	
c) bad-bock recovery	
d) all of the mentioned	
View Answer	
Answer: d	
Explanation: Tertiary storage involves a robotic mechanism which device according to the system's demands; this data is often cor	will mount (insert) and dismount removable mass storage media into a storage
3. A typical tape drive isa typical disk drive. a) more expensive than b) cheaper than c) of the same cost as d) none of the mentioned View Answer Answer: a Explanation: Tertiary storage involves a robotic mechanism which	will mount (insert) and dismount removable mass storage media into a storage
3. A typical tape drive isa typical disk drive. a) more expensive than b) cheaper than c) of the same cost as d) none of the mentioned View Answer Answer: a	will mount (insert) and dismount removable mass storage media into a storage
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3. A typical tape drive isa typical disk drive. a) more expensive than b) cheaper than c) of the same cost as d) none of the mentioned View Answer Answer: a Explanation: Tertiary storage involves a robotic mechanism which device according to the system's demands; this data is often cop 4. During recovery from a failure a) each pair of physical block is examined b) specified pair of physical block is examined c) first pair of physical block is examined	will mount (insert) and dismount removable mass storage media into a storage
3. A typical tape drive isa typical disk drive. a) more expensive than b) cheaper than c) of the same cost as d) none of the mentioned View Answer Answer: a Explanation: Tertiary storage involves a robotic mechanism which device according to the system's demands; this data is often cop 4. During recovery from a failure a) each pair of physical block is examined b) specified pair of physical block is examined c) first pair of physical block is examined d) none of the mentioned	will mount (insert) and dismount removable mass storage media into a storage
3. A typical tape drive isa typical disk drive. a) more expensive than b) cheaper than c) of the same cost as d) none of the mentioned View Answer Answer: a Explanation: Tertiary storage involves a robotic mechanism which device according to the system's demands; this data is often cop 4. During recovery from a failure a) each pair of physical block is examined	will mount (insert) and dismount removable mass storage media into a storage
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Answer: c

View Answer

b) secondary storagec) tertiary storaged) none of the mentioned

Explanation: Tertiary storage involves a robotic mechanism which will mount (insert) and dismount removable mass storage media into a storage

device according to the system's demands; this data is often copied to secondary storage before use.
 6. Which of the following are the process of selecting the data storage and data access characteristics of the database? a) Logical database design b) Physical database design c) Testing and performance tuning d) Evaluation and selecting View Answer
Answer: b Explanation: Physical database design is the process of selecting the data storage and data access characteristics of the database.
7. The replacement of a bad block generally is not totally automatic because a) data in bad block cannot be replaced b) data in bad block is usually lost c) bad block does not contain any data d) none of the mentioned View Answer Answer: b Explanation: Physical database design is the process of selecting the data storage and data access characteristics of the database.
8. Which of the following is the oldest database model? a) Relational b) Hierarchical c) Physical d) Network View Answer Answer: d Explanation: Network model has data stored in a hierarchical network flow.
9. The surface area of a tape isthe surface area of a disk. a) much lesser than b) much larger than c) equal to d) none of the mentioned View Answer

Answer: b

Explanation: Network model has data stored in a hierarchical network flow.

- 10. Which one of the following is not a secondary storage?
- a) magnetic disks
- b) magnetic tapes
- c) ram
- d) none of the mentioned

View Answer

Answer: c

Explanation: Tertiary storage involves a robotic mechanism which will mount (insert) and dismount removable mass storage media into a storage device according to the system's demands; this data is often copied to secondary storage before use.

Database Questions and Answers – File Organisations

- 1. Which level of RAID refers to disk mirroring with block striping?
- a) RAID level 1
- b) RAID level 2
- c) RAID level 0
- d) RAID level 3

View Answer

Answer: a

Explanation: RAID (redundant array of independent disks) is a way of storing the same data in different places (thus, redundantly) on multiple hard disks.

- 2. A unit of storage that can store one or more records in a hash file organization is denoted as
- a) Buckets
- b) Disk pages
- c) Blocks
- d) Nodes

View Answer

Answer: a

Explanation: A unit of storage that can store one or more records in a hash file organization is denoted as buckets.

- 3. The file organization which allows us to read records that would satisfy the join condition by using one block read is
- a) Heap file organization
- b) Sequential file organization
- c) Clustering file organization
- d) Hash file organization

View Answer

Answer: c

Explanation: All systems in the cluster share a common file structure via NFS, but not all disks are mounted on all other systems.

- 4. What are the correct features of a distributed database?
- a) Is always connected to the internet
- b) Always requires more than three machines
- c) Users see the data in one global schema.
- d) Have to specify the physical location of the data when an update is done

View Answer

Answer: c

Explanation: Users see the data in one global schema.

- 5. Each tablespace in an Oracle database consists of one or more files called
- a) Files
- b) name space
- c) datafiles
- d) PFILE

View Answer

Answer: c

Explanation: A data file is a computer file which stores data to use by a computer application or system.

- 6. The management information system (MIS) structure with one main computer system is called a
- a) Hierarchical MIS structure

- b) Distributed MIS structure
- c) Centralized MIS structure
- d) Decentralized MIS structure

Answer: c

Explanation: Structure of MIS may be understood by looking at the physical components of the information system in an organization.

- 7. A top-to-bottom relationship among the items in a database is established by a
- a) Hierarchical schema
- b) Network schema
- c) Relational schema
- d) All of the mentioned

View Answer

Answer: a

Explanation: A hierarchical database model is a data model in which the data is organized into a tree-like structure. The structure allows representing information using parent/child relationships.

- 8. Choose the RDBMS which supports full fledged client server application development
- a) dBase V
- b) Oracle 7.1
- c) FoxPro 2.1
- d) Ingress

View Answer

Answer: b

Explanation: RDBMS is Relational Database Management System.

- 9. One approach to standardization storing of data?
- a) MIS
- b) Structured programming
- c) CODASYL specification
- d) None of the mentioned

View Answer

Answer: c

Explanation: CODASYL is an acronym for "Conference on Data Systems Languages".

- 10. The highest level in the hierarchy of data organization is called
- a) Data bank
- b) Data base
- c) Data file
- d) Data record

View Answer

Answer: b

Explanation: Database is a collection of all tables which contains the data in form of fields.

Database Questions and Answers – Organization of Records in Files 1. If a piece of data is stored in two places in the database, then a) Storage space is wasted b) Changing the data in one spot will cause data inconsistency c) In can be more easily accessed d) Storage space is wasted & Changing the data in one spot will cause data inconsistency View Answer Answer: d Explanation: The database is always consistent and so there is no duplication. 2. An audit trail a) Is used to make backup copies b) Is the recorded history of operations performed on a file c) Can be used to restore lost information d) None of the mentioned View Answer Answer: b Explanation: This is more useful for all recovery actions. 3. Large collection of files are called a) Fields b) Records c) Database d) Sectors View Answer Answer: c Explanation: The operator tree has a tree like format where the evaluation starts from root of the tree . 4. Which of the following hardware component is the most important to the operation of a database management system? a) High resolution video display b) Printer c) High speed, large capacity disk d) Mouse View Answer Answer: c Explanation: All the data are stored in form of memory in the disk. 5. Which of the following is not true of the traditional approach to information processing a) There is common sharing of data among the various applications b) It is file oriented c) Programs are dependent on the file d) It is inflexible View Answer Answer: a Explanation: All the data are stored in form of memory in the disk.

6. Which of these is not a feature of Hierarchical model?

a) Organizes the data in tree-like structureb) Parent node can have any number of child nodes

c) Root node does not have any parent	
d) Child node can have any number of parent nodes	
View Answer	
Answer: d	
Explanation: The data are traversed using several algorithms.	
7. Which of these data models is an extension of the relational data model?	
a) Object-oriented data model	
b) Object-relational data model	
c) Semi structured data model	
d) None of the mentioned	
View Answer	
Answer: b	
Explanation: All the data are stored in form of memory in the disk.	
8. The information about data in a database is called	
a) Metadata	
b) Hyper data	
c) Tera data	
d) None of the mentioned	
View Answer	
Answer: a	
Explanation: Metadata is information about a data.	
9. A data dictionary is a special file that contains?	
a) The names of all fields in all files	
b) The data types of all fields in all files	
c) The widths of all fields in all files	
d) All of the mentioned	
View Answer	
2 / Tillib Will HAL	
Answer: d	INAI 3/ /
Explanation: The data dictionary is structured in tables and views, just like other database	ase data.

10. The DBMS acts as an interface between what two components of an enterprise-class database system?

- a) Database application and the database
- b) Data and the database
- c) The user and the database application
- d) Database application and SQL

View Answer

Answer: a

Explanation: Database application is the interface with the user to access the database.

b) Catalog 2) Log 3) Dictionary 4) Dictionary 4) Dictionary 4) Dictionary 4) Dictionary 4) Dictionary 4) Sexplanation: Each side of a platter of a disk has a read—write head that moves across the platter to access different tracks. Explanation: Each side of a platter of a disk has a read—write head that moves across the platter to access different tracks. Explanation: Each side of a platter of a disk has a read—write head that moves across the platter to access different tracks. Explanation: Each side of a platter of a disk has a read—write head that moves across the platter to access different tracks. Explanation: Each side of a platter of a disk has a read—write head that moves across the platter to access different tracks. Explanation: Data dictionary 4) Database Explanation: Data dictionary is also called as system catalog: 3 is the collection of memory structures and Oracle background processes that operates against an Oracle database. 8) Database 9) Database 9) Tablespace 9) Segments 10 Tablespace 10 Tablespace is further broken down into 10 Tablespace 10 Extents 10 Blocks 10 Extents 10 Extents 10 Blocks 10 Extents 10 Extents 10 Extents 10 Blocks 10 Extents	Database Questions a	and Answers – Data-Dictionary Storage
Explanation: Each side of a platter of a disk has a read-write head that moves across the platter to access different tracks. 2. Relational schemas and other metadata about relations are stored in a structure called the	A relational database system Metadata Dictalog Log Dictionary View Answer	em needs to maintain data about the relations, such as the schema of the relations. This is called
2. Relational schemas and other metadata about relations are stored in a structure called the	Answer: a	
a) Metadata b) Metadalog c) Catolog c) Log d) Data Dictionary View Answer Answer d Explanation: Data dictionary is also called as system catalog. 3 is the collection of memory structures and Oracle background processes that operates against an Oracle database. a) Database b) Instance c) Tablespace d) Segment View Answer Answer: b Explanation: Instance is a snapshot of database at any point of time. 4. A is a logical grouping of database objects, usually to facilitate security, performance, or the availability of database objects sure as tables and indexes. a) Tablespace b) Segments c) Extents d) Blocks View Answer Answer: a Explanation: A tablespace is a storage location where the actual data underlying database objects can be kept. 5. A tablespace b) Segments c) Extents d) Blocks View Answer e) Segments b) Segments c) Extents d) Blocks View Answer	Explanation: Each side of a p	platter of a disk has a read—write head that moves across the platter to access different tracks.
Explanation: Data dictionary is also called as system catalog.	2. Relational schemas and of a) Metadata b) Catalog c) Log d) Data Dictionary View Answer	her metadata about relations are stored in a structure called the
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Explanation: A tablespace is a storage location where the actual data underlying database objects can be kept. 5. A tablespace is further broken down into a) Tablespace b) Segments c) Extents d) Blocks View Answer	4. Ais a logical gas tables and indexes. a) Tablespace b) Segments c) Extents d) Blocks View Answer	IIIL WITH A DDAY'C/
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a) Tablespace b) Segments c) Extents d) Blocks View Answer	Explanation: A tablespace is	a storage location where the actual data underlying database objects can be kept.
Answer: b	5. A tablespace is further broad Tablespace b) Segments c) Extents d) Blocks View Answer	oken down into
Explanation: Segment names are used in create table and create index commands to place tables or indexes on specific database devices.	Answer: b Explanation: Segment name	s are used in create table and create index commands to place tables or indexes on specific database devices.
6is a contiguous group of blocks allocated for use as part of a table, index, and so forth.		

b) Segment	
c) Extent	
d) Block	
View Answer	
Answer: c	
Explanation: An extent is a set of contig	guous blocks allocated in a database.
7is the smallest unit of allo	ocation in an Oracle database.
a) Database	
b) Instance	
c) Tablespace	
d) Database Block	
View Answer	
Answer: d	
Explanation: Data block is a form of d	atabase space allocation
Explanation: But block is a form of a	initials space unocuron
8. An Oracle is a set of t	ables and views that are used as a read-only reference about the database.
a) Database dictionary	
b) Dictionary table	
c) Data dictionary	
d) Dictionary	
View Answer	
A	
Answer: c Explanation: Data dictionary is also cal	lad as system catalog
Explanation. Data dictionary is also car	ed as system catalog.
9. A data dictionary is created when aa) Instance	created.
b) Segment	
c) Database	
d) Dictionary	FILLITIES DE SUIO /
View Answer	LWIIUADDAV-C/>
	CWIINARRAI 3//I
Answer: c	
Explanation: Data dictionary is also cal	ed as system catalog.
10. An Oracle object type has two par	ts theand
a) Instance and body	
b) Segment and blocks	
c) Specification and body	
d) Body and segment View Answer	
TIOW THIS WEI	
Answer: c	
Explanation: Segment names are used	in create table and create index commands to place tables or indexes on specific database devices. An
extent is a set of contiguous blocks a	located in a database.

Database Questions and Answers – Database Buffer	
1. The is that part of main memory available for storage of copies of disk blocks.	
a) Buffer	
b) Catalog	
c) Storage	
d) Secondary storage View Answer	
Answer: a	
Explanation: There is always a copy kept on disk of every block, but the copy on disk may be a version of the block older than the buffer.	the version in
2. A major goal of the database system is to minimize the number of block transfers between the disk and memory. This is achie	ved by
a) Buffer	
b) Catalog	
c) Storage	
d) Secondary storage View Answer	
View Allswei	
Answer: a	
Explanation: There is always a copy kept on disk of every block, but the copy on disk may be a version of the block older than	the version in
the buffer.	
b) Buffer manager c) Storage d) Secondary storage View Answer	
Answer: b Explanation: Programs in a database system make requests (that is, calls) on the buffer manager when they need a block from di	isk.
4. In the buffer where there is no space for another block, the block can be inserted using	
a) Pinned block strategy	
b) Forced output block c) Buffer replacement strategy	
d) All of the mentioned	
View Answer	
Answer: c	41
Explanation: Most operating systems use a least recently used (LRU) scheme, in which the block that was referenced least recently to disk and is removed from the buffer.	ntiy is written
5. A block that is not allowed to be written back to disk is said to be	
a) Pinned b) Forced	
c) Buffer	
d) All of the mentioned	
View Answer	
Answer: a	
Answer: a Explanation: Although many operating systems do not support pinned blocks, such a feature is essential for a database system the	hat is resilient

6. There are situations in which it is necessary to write back the block to disk, even though the buffer space that it occupies is not nee	oded This
write is called the	aca. This
a) Pinned block strategy	
b) Forced output block	
c) Buffer replacement strategy	
d) All of the mentioned View Answer	
View Answer	
Answer: b	
Explanation: The main-memory contents and thus buffer contents are lost in a crash, whereas data on disk usually survive a crash.	
7. The frequently used buffer replacement strategy is	
a) Most recently used	
b) Least recently used	
c) Longest block d) All of the mentioned	
View Answer	
VICW THIS WEI	
Answer: b	
Explanation: If a block must be replaced, the least recently referenced block is replaced.	
8. In case the buffer manager do not write the blocks properly then the buffer manager uses a) Replacement strategy	
b) Forced strategy	
c) Crash recovery system	
d) Both Replacement and Forced strategy	
View Answer	
Answer: c	
Explanation: The crash-recovery subsystem imposes stringent constraints on block replacement.	
9. The technique where the blocks which have been used are replaced is called	
a) Replacement strategy	
b) Forced strategy	
c) Crash recovery system	
d) Most recently used	
View Answer	
Answer: d	
Explanation: The optimal strategy for block replacement is the most recently used (MRU) strategy.	9
10frees the space occupied by a block as soon as the final tuple of that block has been processed.	
a) Replacement strategy	
b) Forced strategy	
c) Toss immediate strategy	
d) Most recently used	
View Answer	
Answer: c	
Explanation: The optimal strategy for block replacement is the most recently used (MRU) strategy.	

Database Questions and Answers — Ordered Indices 1. In ordered indices the file containing the records is sequentially ordered, a	
sequential order of the file. a) Clustered index b) Structured index c) Unstructured index d) Nonclustered index d) Nonclustered index d) Nonclustered index d) Nonclustered index d) Structured index are also called primary indices; the term primary index may appear to denote an index on a primary key, but suc indices can in fact be built on any search key. 2. Indices whose search key specifies an order different from the sequential order of the file are called	Database Questions and Answers – Ordered Indices
a) Clustered index b) Structured index c) Unstructured index d) Nonclustered index d) Nonclustered answer: a Explanation: Clustering index are also called primary indices; the term primary index may appear to denote an index on a primary key, but sac indices can in fact be built on any search key. 2. Indices whose search key specifies an order different from the sequential order of the file are calledindices. a) Nonclustered b) Secondary c) Allof the mentioned d) None of the mentioned d) None of the mentioned d) None of the mentioned View Answer Answer: a Explanation: Nonclustering index is also called secondary indices. 3. An consists of a search-key value and pointers to one or more records with that value as their search-key value. a) Index entry b) Index hash c) Index cluster d) Index map View Answer Answer: a Explanation: The pointer to a record consists of the identifier of a disk block and an offset within the disk block to identify the record within the block. 4. In a clustering index, the index record contains the search-key value and a pointer to the first data record with that search-key value and the rest of the records will be in the sequential pointers. a) Dense b) Sparse c) Straight d) Continuous View Answer Answer: a Explanation: In a dense nonclustering index, the index must store a list of pointers to all records with the same search-key value. 5. In a index, an index entry appears for only some of the search-key values. a) Dense b) Sparse c) Straight d) Continuous View Answer Answer: a	
b) Structured index c) Districtured index d) Nonclustered index View Answer Answer: a Answer: a Faplanation: Clustering index are also called primary indices; the term primary index may appear to denote an index on a primary key, but suc indices can in fact be built on any search key. 2. Indices whose search key specifies an order different from the sequential order of the file are called	
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a) Nonclustered b) Secondary c) All of the mentioned d) None of the mentioned View Answer Answer: Answer: Explanation: Nonclustering index is also called secondary indices. 3. An consists of a search-key value and pointers to one or more records with that value as their search-key value. a) Index entry b) Index hash c) Index cluster d) Index nap View Answer Answer: Answer: Answer: Answer: Answer a Explanation: The pointer to a record consists of the identifier of a disk block and an offset within the disk block to identify the record within the block. 4. In a clustering index, the index record contains the search-key value and a pointer to the first data record with that search-key value and the rest of the records will be in the sequential pointers. a) Dense b) Sparse c) Straight d) Continuous View Answer Answer: Answer: a index, an index entry appears for only some of the search-key values. b) Sparse c) Straight d) Continuous View Answer Answer: a index, an index entry appears for only some of the search-key values. b) Sparse c) Straight d) Continuous View Answer Answer: a	
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b) Secondary c) All of the mentioned d) None of the mentioned d) None of the mentioned View Answer Answer: c Explanation: Nonclustering index is also called secondary indices. 3. Anconsists of a search-key value and pointers to one or more records with that value as their search-key value. a) Index entry b) Index hash c) Index map View Answer Answer: a Explanation: The pointer to a record consists of the identifier of a disk block and an offset within the disk block to identify the record within the block. 4. In a clustering index, the index record contains the search-key value and a pointer to the first data record with that search-key value and the rest of the records will be in the sequential pointers. a) Dense b) Sparse c) Straight d) Continuous View Answer Answer: a index, an index entry appears for only some of the search-key values. a) Dense b) Sparse c) Straight d) Continuous View Answer Answer: a	
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d) None of the mentioned	
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Answer: c	wer: c
Explanation: If the index entry stores pointers to all records with the same search key value, the system adds a pointer to the new record in the	
index entry.	

Database Questions and Answers – Hashing techniques

1. If h is any hashing function and is used to hash n keys in to a table of size m, where n<=m, the expected number of collisions involving a
particular key x is :
a) Less than 1
b) Less than n
c) Less than m
d) Less than n/2
View Answer
Answer: a
Explanation: Hashing is also a method of sorting key values in a database table in an efficient manner.
2. A technique for direct search is
a) Binary Search
b) Linear Search
c) Tree Search
d) Hashing
View Answer
Answer: d
Explanation: Hashing is one way to enable security during the process of message transmission when the message is intended for a particul
recipient only.
3. The searching technique that takes O (1) time to find a data is
a) Linear Search
b) Binary Search
c) Hashing
d) Tree Search
View Answer
TION THIS WOL
Answer: c

Explanation: A formula generates the hash, which helps to protect the security of the transmission from unauthorized users.

- 4. The goal of hashing is to produce a search that takes
- a) O(1) time
- b) O(n2) time
- c) O(log n) time
- d) $O(n \log n)$ time

View Answer

Answer: a

Explanation: Time complexity is given by the big oh notation.

5. Consider a hash table of size seven, with starting index zero, and a hash function $(3x + 4) \mod 7$. Assuming the hash table is initially empty, which of the following is the contents of the table when the sequence 1, 3, 8, 10 is inserted into the table using closed hashing? Note that '_' denotes an empty location in the table.

View Answer

Explanation: A formula generates the hash, which helps to protect the security of the transmission from unauthorized users.

- 6. A hash table can store a maximum of 10 records, currently there are records in location 1, 3,4,7,8,9,10. The probability of a new record going into location 2, with hash functions resolving collisions by linear probing is
- a) 0.1
- b) 0.6
- c) 0.2
- d) 0.5

Answer: b

Explanation: Hashing is used to index and retrieve items in a database because it is easier to find the item using the shortened hashed key than using the original value.

- 7. Key value pairs is usually seen in
- a) Hash tables
- b) Heaps
- c) Both Hash tables and Heaps
- d) Skip list

View Answer

Answer: a

Explanation: Hashing is used to index and retrieve items in a database because it is easier to find the item using the shortened hashed key than using the original value.

- 8. What is the best definition of a collision in a hash table?
- a) Two entries are identical except for their keys
- b) Two entries with different data have the exact same key
- c) Two entries with different keys have the same exact hash value
- d) Two entries with the exact same key have different hash values

View Answer

Answer: a

Explanation: This level is the root of the tree.

- 9. Which of the following scenarios leads to linear running time for a random search hit in a linear-probing hash table?
- a) All keys hash to same index
- b) All keys hash to different indices
- c) All keys hash to an even-numbered index
- d) All keys hash to different even-numbered indices

View Answer

Answer: a

Explanation: If all keys hash to the same location then the i-th inserted key would need i lookups to be found. The probability of looking up i-th key is 1/n (since it's random). If you know some probability it's trivial to show that such lookups have linear time.

- 10. Breadth First Search is used in
- a) Binary trees
- b) Stacks
- c) Graphs
- d) All of the mentioned

View Answer

Answer: c

Explanation: Hashing is used to index and retrieve items in a database because it is easier to find the item using the shortened hashed key than using the original value.

1. A(n)can be used to preserve the integrity of a document or a message.	
a) Message digest	
b) Message summary c) Encrypted message	
d) None of the mentioned	
View Answer	
Answer: c	
Explanation: Encryption algorithms are used to keep the contents safe.	
2. A bash farmating and the same and the sam	
2. A hash function must meetcriteria. a) Two	
b) Three	
c) Four	
d) None of the mentioned	
View Answer	
Answer: b	
Explanation: Only if the criteria is fulfilled the values are hashed.	
3. What is the main limitation of Hierarchical Databases?	
a) Limited capacity (unable to hold much data)	
b) Limited flexibility in accessing data	
c) Overhead associated with maintaining indexes d) The performance of the database is poor	
View Answer	
Answer: b Explanation: In this, the data items are placed in a tree like hierarchical structure.	
Explanation. In this, the data terms are placed in a dec like inclaimed sudcture.	W/A /.
4. The property (or set of properties) that uniquely defines each row in a table is called the:	
a) Identifier	
b) Index	
c) Primary key	
d) Symmetric key View Answer	
VIEW Alliswei	
Answer: c	
Explanation: Primary is used to uniquely identify the tuples.	
5. The separation of the data definition from the program is known as:	
a) Data dictionary	
b) Data independence	
c) Data integrity d) Referential integrity	
View Answer	
VIEW Alliswei	
Answer: b	

- c) Resides on the client side
- d) Resides on the server side

Answer: d

Explanation: The server has all the database information and the client access it.

- 7. The traditional storage of data that is organized by customer, stored in separate folders in filing cabinets is an example of what type of 'database' system?
- a) Hierarchical
- b) Network
- c) Object oriented
- d) Relational

View Answer

Answer: a

Explanation: Hierarchy is based on Parent-Child Relationship. Parent-Child Relationship Type is basically 1:N relationship.

- 8. The database design that consists of multiple tables that are linked together through matching data stored in each table is called
- a) Hierarchical database
- b) Network database
- c) Object oriented database
- d) Relational database

View Answer

Answer: d

Explanation: A relational database is a collection of data items organized as a set of formally described tables from which data can be accessed or reassembled.

- 9. The association role defines:
- a) How tables are related in the database
- b) The relationship between the class diagram and the tables in the database
- c) The tables that each attribute is contained
- d) Which attribute is the table's primary key

View Answer

Answer: a

Explanation: The tables are always related in the database to form consistency.

- 10. The purpose of an N-Ary association is:
- a) To capture a parent-child relationship
- b) To deal with one to many relationships
- c) To deal with relationships that involve more than two tables
- d) To represent an inheritance relationship

View Answer

Answer: c

Explanation: The is binary n-array association meaning more than two classes are involved in the relationship.

Database Questions & Answers – Bitmap Indices

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 1. Bitmap indices are a specialized type of index designed for easy querying on _____
- a) Bit values
- b) Binary digits
- c) Multiple keys
- d) Single keys

View Answer

Answer: c

Explanation: Each bitmap index is built on a single key.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 2. A _____on the attribute A of relation r consists of one bitmap for each value that A can take.
- a) Bitmap index
- b) Bitmap
- c) Index
- d) Array

View Answer

Answer: a

Explanation: A bitmap is simply an array of bits.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

In this selection, we fetch the bitmaps for gender value f and the bitmap for income level value L2, and perform an _of the two bitmaps.

- a) Union
- b) Addition
- c) Combination
- d) Intersection

View Answer

Answer: d

Explanation: We compute a new bitmap where bit i has value 1 if the ith bit of the two bitmaps are both 1, and has a value 0 otherwise.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 4. To identify the deleted records we use the _____
- a) Existence bitmap

- b) Current bitmap
- c) Final bitmap
- d) Deleted bitmap

Answer: a

Explanation: The bitmaps which are deleted are denoted by 0.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 5. Bitmaps can be used as a compressed storage mechanism at the leaf nodes of ______for those values that occur very frequently.
- a) B-trees
- b) B+-trees
- c) Bit trees
- d) Both B-trees and B+-trees

View Answer

Answer: b

Explanation: Bitmaps are combined and stored in a B+ tree.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 6. Bitmaps can be combined with regular B+-tree indices for relations where a few attribute values are extremely common, and other values also occur, but much less frequently.
- a) Bitmap, B-tree
- b) Bitmap, B+tree
- c) B-tree, Bitmap
- d) B+tree, Bitmap

View Answer

Answer: b

Explanation: Bitmaps are combined and stored in a B+ tree.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 7. In a B+-tree index _____for each value, we would normally maintain a list of all records with that value for the indexed attribute.
- a) Leaf
- b) Node
- c) Root
- d) Link

View Answer

Answer: a

Explanation: Bitmaps are combined and stored in a B+ tree.

3.

SELECT *

FROM r								
WHERE	gender	=	′f′	AND	income	level	=	'L2';

- 8. A tablespace is further broken down into _____
- a) Tablespace
- b) Segments
- c) Extents
- d) Blocks

Answer: b

Explanation: Segment names are used in create table and create index commands to place tables or indexes on specific database devices.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 9. In ordered indices the file containing the records is sequentially ordered, a ______ is an index whose search key also defines the sequential order of the file.
- a) Clustered index
- b) Structured index
- c) Unstructured index
- d) Nonclustered index

View Answer

Answer: a

Explanation: Clustering index are also called primary indices; the term primary index may appear to denote an index on a primary key, but such indices can in fact be built on any search key.

3.

```
SELECT *
FROM r
WHERE gender = 'f' AND income level = 'L2';
```

- 10. Indices whose search key specifies an order different from the sequential order of the file are called _____indices.
- a) Nonclustered
- b) Secondary
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: c

Explanation: Nonclustering index are also called secondary indices.

Database Questions and Answers - Index Definition in SQL

- 1. What is the purpose of the index in sql server?
- a) To enhance the query performance
- b) To provide an index to a record
- c) To perform fast searches
- d) All of the mentioned

View Answer

Answer: d

Explanation: A database index is a data structure that improves the speed of data retrieval operations on a database table at the cost of additional writes.

- 2. How many types of indexes are there in sql server?
- a) 1
- b) 2
- c) 3
- d) 4

View Answer

Answer: b

Explanation: They are clustered index and non clustered index.

- 3. How non clustered index point to the data?
- a) It never points to anything
- b) It points to a data row
- c) It is used for pointing data rows containing key values
- d) None of the mentioned

View Answer

Answer: c

Explanation: Nonclustered indexes have a structure separate from the data rows. A nonclustered index contains the nonclustered index key value and each key value entry has a pointer to the data row that contains the key value.

- 4. Which one is true about clustered index?
- a) Clustered index is not associated with table
- b) Clustered index is built by default on unique key columns
- c) Clustered index is not built on unique key columns
- d) None of the mentioned

View Answer

Answer: b

Explanation: Nonclustered indexes have a structure separate from the data rows. A nonclustered index contains the nonclustered index key values and each key value entry has a pointer to the data row that contains the key value.

- 5. What is true about indexes?
- a) Indexes enhance the performance even if the table is updated frequently
- b) It makes harder for sql server engines to work to work on index which have large keys
- c) It doesn't make harder for sql server engines to work to work on index which have large keys
- d) None of the mentioned

View Answer

Answer: b

Explanation: Indexes tend to improve the performance.

6. Does index take space in the disk?
a) It stores memory as and when required
b) Yes, Indexes are stored on disk
c) Indexes are never stored on disk
d) Indexes take no space
View Answer
Answer: b
Explanation: Indexes take memory slots which are located on the disk.
7. What are composite indexes?
a) Are those which are composed by database for its internal use
b) A composite index is a combination of index on 2 or more columns
c) Composite index can never be created
d) None of the mentioned
View Answer
Answer: b
Explanation: A composite index is an index on two or more columns of a table.
8. If an index isthe metadata and statistics continue to exists
a) Disabling
b) Dropping
c) Altering
d) Both Disabling and Dropping
View Answer
Answer: a
Explanation: A database index is a data structure that improves the speed of data retrieval operations on a database table at the cost of
additional writes.
9. Inindex instead of storing all the columns for a record together, each column is stored separately with all other rows in
an index.
a) Clustered
b) Column store
c) Non clustered d) Row store
View Answer
TION 2 HISWOL
Answer: b
Explanation: A database index is a data structure that improves the speed of data retrieval operations on a database table at the cost of
additional writes.
10. Aindex is the one which satisfies all the columns requested in the query without performing further lookup into the
clustered index. a) Clustered
b) Non Clustered
c) Covering
d) B-Tree
View Answer
A
Answer: c Explanation: A covered query is a query where all the columns in the query's result set are pulled from non-clustered indexes
Explanation: A covered query is a query where all the columns in the query's result set are pulled from non-clustered indexes.

Database Questions and Answers - Query Processing

- 1. A collection of data designed to be used by different people is called a/an
- a) Organization
- b) Database
- c) Relationship
- d) Schema

View Answer

Answer: b

Explanation: Database is a collection of related tables.

- 2. Which of the following is the oldest database model?
- a) Relational
- b) Deductive
- c) Physical
- d) Network

View Answer

Answer: d

Explanation: The network model is a database model conceived as a flexible way of representing objects and their relationships.

- 3. Which of the following schemas does define a view or views of the database for particular users?
- a) Internal schema
- b) Conceptual schema
- c) Physical schema
- d) External schema

View Answer

Answer: d

Explanation: An externally-defined schema can provide access to tables that are managed on any PostgreSQL, Microsoft SQL Server, SAS, Oracle, or MySQL database.

- 4. Which of the following is an attribute that can uniquely identify a row in a table?
- a) Secondary key
- b) Candidate key
- c) Foreign key
- d) Alternate key

View Answer

Answer: b

Explanation: A Candidate Key can be any column or a combination of columns that can qualify as unique key in database.

- 5. Which of the following are the process of selecting the data storage and data access characteristics of the database?
- a) Logical database design
- b) Physical database design
- c) Testing and performance tuning
- d) Evaluation and selecting

View Answer

Answer: b

Explanation: The physical design of the database optimizes performance while ensuring data integrity by avoiding unnecessary data redundancies.

6. Which of the following terms does refer to the correctness and completeness of the data in a database?

- a) Data security
- b) Data constraint
- c) Data independence
- d) Data integrity

Answer: d

Explanation: ACID property is satisfied by transaction in database.

- 7. The relationship between DEPARTMENT and EMPLOYEE is a
- a) One-to-one relationship
- b) One-to-many relationship
- c) Many-to-many relationship
- d) Many-to-one relationship

View Answer

Answer: b

Explanation: One entity department is related to several employees.

- 8. A table can be logically connected to another table by defining a
- a) Super key
- b) Candidate key
- c) Primary key
- d) Unique key

View Answer

Answer: c

Explanation: A superkey is a combination of attributes that can be uniquely used to identify a database record.

- 9. If the state of the database no longer reflects a real state of the world that the database is supposed to capture, then such a state is called
- a) Consistent state
- b) Parallel state
- c) Durable state
- d) Inconsistent state

View Answer

Answer: d

Explanation: SQL data consistency is that whenever a transaction is performed, it sees a consistent database.

- 10. Ensuring isolation property is the responsibility of the
- a) Recovery-management component of the DBMS
- b) Concurrency-control component of the DBMS
- c) Transaction-management component of the DBMS
- d) Buffer management component in DBMS

View Answer

Answer: b

Explanation: Concurrency control ensures that correct results for concurrent operations are generated while getting those results as quickly as possible.

Database Questions and A	Answers – Selection Operation
In query processing, the	is the lowest-level operator to access data.
a) Index Search	
b) Linear search	
c) File scan	
d) Access paths	
View Answer	
Answer: c	
Explanation: File scans are search a	lgorithms that locate and retrieve records that fulfill a selection condition.
2. In athe system	scans each file block and tests all records to see whether they satisfy the selection condition.
a) Index Search	
b) Linear search	
c) File scan	
d) Access paths	
View Answer	
VIEW Allswei	
Answer: b	
Explanation: An initial seek is requi	red to access the first block of the file.
3. Index structures are referred to a	since they provide a path through which data can be located and accessed.
a) Index Search	since they provide a path unough which data can be located and accessed.
b) Linear search	
c) File scan	
d) Access paths	
View Answer	
Answer: d	
	index that allows the records of a file to be read in an order that corresponds to the physical order in the file
Explanation. A primary index is an	index that allows the records of a file to be read in an order that corresponds to the physical order in the file
a -/-////	ILW/IIUADDAY'C/~
4. Search algorithms that use an inc	lex are referred to as
a) Index Search	
b) Linear search	
c) File scan	
d) Access paths	
View Answer	
Answer: a	
Explanation: Selection predicates a	re used to guide in the choice of the index to use in processing the query.
5. Which algorithm uses equality co	omparison on a key attribute with a primary index to retrieve a single record that satisfies the corresponding
equality condition.	
a) A2	
b) A4	
c) A5	
d) A6	
View Answer	
Answer: a	
Explanation: A2 – primary index, ed	quality on key.
6. The strategy can retrieve a single key is	e record if the equality condition is on a key; multiple records may be retrieved if the indexing field is not a

a) A2	
b) A4	
c) A5	
d) A6	
View Answer	
Answer: b	
Explanation: A4 – Secondary index, equality.	
7. The algorithm that uses a secondary ordered index to guide retrieval for comparison conditions involving <.≤.≥, or	or > is
a) A2	
b) A4	
c) A5	
d) A6	
View Answer	
Answer: d	
Explanation: A6 – Secondary index, comparison.	
8. Thealgorithm scans each index for pointers to tuples that satisfy an individual condition.	
a) A2	
b) A4	
c) A9	
d) A6	
View Answer	
View Answer	
Answer: c	
Explanation: A9 – Conjunctive selection by an intersection of identifiers.	
9. If access paths are available on all the conditions of a disjunctive selection, each index is scanned for pointers to t	tunles that satisfy the
individual condition. This is satisfied by	upies that satisfy the
a) A10	
b) A7	
a) A0	
c) A9 d) A6	
View Answer	
Answer: a	
Explanation: A10 – Disjunctive selection by union of identifiers.	
Explanation. A 10 – Disjunctive selection by difficilities.	
10. Conjunctive selection using one index. This is	
a) A10	
b) A7	
c) A9	
d) A6	
View Answer	
Answer: b	4
Explanation: To reduce the cost of A7 we choose a i and one of algorithms A1 through A6 for which the combination of the combin	on results in the least cos
i (r). The cost of algorithm A7 is given by the cost of the chosen algorithm.	

Database Questions and Answers - Sorting

- 1. Two main measures for the efficiency of an algorithm are
- a) Processor and memory
- b) Complexity and capacity
- c) Time and space
- d) Data and space

View Answer

Answer: c

Explanation: Depending on the time and space complexity only the algorithm for sorting will be chosen.

- 2. The time factor when determining the efficiency of an algorithm is measured by
- a) Counting microseconds
- b) Counting the number of key operations
- c) Counting the number of statements
- d) Counting the kilobytes of algorithm

View Answer

Answer: b

Explanation: The operations taking place with the time and space is counted.

- 3. The space factor when determining the efficiency of an algorithm is measured by
- a) Counting the maximum memory needed by the algorithm
- b) Counting the minimum memory needed by the algorithm
- c) Counting the average memory needed by the algorithm
- d) Counting the maximum disk space needed by the algorithm

View Answer

Answer: a

Explanation: Time complexity maintains the maximum time needed.

- 4. Which of the following case does not exist in complexity theory
- a) Best case
- b) Worst case
- c) Average case
- d) Null case

View Answer

Answer: d

Explanation: Null case cannot be counted as the factor for complexity.

- $5. \ \ The \ Worst \ case \ occur \ in linear search algorithm \ when$
- a) Item is somewhere in the middle of the array
- b) Item is not in the array at all
- c) Item is the last element in the array
- d) Item is the last element in the array or is not there at all

View Answer

Answer: d

Explanation: Algorithmic complexity is concerned about how fast or slow particular algorithm performs.

- 6. The Average case occur in linear search algorithm
- a) When Item is somewhere in the middle of the array
- b) When Item is not in the array at all

- c) When Item is the last element in the array
- d) When Item is the last element in the array or is not there at all

Answer: a

Explanation: Algorithmic complexity is concerned about how fast or slow particular algorithm performs.

- 7. The complexity of the average case of an algorithm is
- a) Much more complicated to analyze than that of worst case
- b) Much more simpler to analyze than that of worst case
- c) Sometimes more complicated and some other times simpler than that of worst case
- d) None of the mentioned

View Answer

Answer: a

Explanation: Algorithmic complexity is concerned about how fast or slow particular algorithm performs.

- 8. The complexity of a linear search algorithm is
- a) O(n)
- b) O(log n)
- c) O(n2)
- d) O(n log n)

View Answer

Answer: a

Explanation: It refers to n values complexity in the algorithm which can be reduced by choosing the other algorithms.

- 9. The complexity of Binary search algorithm is
- a) O(n)
- b) O(log)
- c) O(n2)
- d) O(n log n)

View Answer

Answer: b

Explanation: This shows that it has a standard complexity in addressing.

- 10. The complexity of Bubble sort algorithm is
- a) O(n)
- b) O(log n)
- c) O(n2)
- d) O(n log n)

View Answer

Answer: c

Explanation: Bubble sort, is a simple sorting algorithm that works by repeatedly stepping through the list to be sorted, comparing each pair of adjacent items and swapping them if they are in the wrong order.

	ers – Join Operations
1. Ais a query that retrieves rows f	from more than one table or view:
a) Start	
b) End c) Join	
d) All of the mentioned	
View Answer	
Answer: c	
	nes records from two or more tables in a database. It creates a set that can be saved as a table or use
as it is. A JOIN is a means for combining	g fields from two tables by using values common to each.
2. A condition is reformed to as	
A condition is referred to as a) Join in SQL	_
b) Join condition	
c) Join in SQL & Condition	
d) None of the mentioned	
View Answer	
Answer: b	
Explanation: An SQL join clause co <mark>mbin</mark>	nes records from two or more tables in a database. It creates a set that can be saved as a table or use
as it is. A JOIN is a means for combining	fields from two tables by using values common to each.
b) Oracle 8i c) Pre-oracle 9i d) Pre-oracle 8i	
View Answer	
View Answer Answer: c Explanation: Oracle 9i is a version of the C	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition:	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready".
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d	
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d	Oracle Database. The i stands for "Internet" to indicate that 9i is "Internet ready". , RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d Explanation: INNER JOIN, LEFT JOIN,	, RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d Explanation: INNER JOIN, LEFT JOIN, 5. Which are the join types in join conditio	, RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d Explanation: INNER JOIN, LEFT JOIN, 5. Which are the join types in join condition a) Cross join b) Natural join	, RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d Explanation: INNER JOIN, LEFT JOIN, 5. Which are the join types in join condition a) Cross join b) Natural join c) Join with USING clause	, RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d Explanation: INNER JOIN, LEFT JOIN, 5. Which are the join types in join condition a) Cross join b) Natural join c) Join with USING clause d) All of the mentioned	, RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d	, RIGHT JOIN, FULL JOIN, EQUIJOIN.
Answer: c Explanation: Oracle 9i is a version of the C 4. How many join types in join condition: a) 2 b) 3 c) 4 d) 5 View Answer Answer: d Explanation: INNER JOIN, LEFT JOIN, 5. Which are the join types in join condition a) Cross join b) Natural join c) Join with USING clause d) All of the mentioned	, RIGHT JOIN, FULL JOIN, EQUIJOIN.

- a) Equijoins
- b) Cartesian
- c) Both Equijoins and Cartesian
- d) None of the mentioned

Answer: b

Explanation: A Cartesian coordinate system is a coordinate system that specifies each point uniquely in a plane by a pair of numerical coordinates.

- 7. Which is a join condition contains an equality operator:
- a) Equijoins
- b) Cartesian
- c) Both Equijoins and Cartesian
- d) None of the mentioned

View Answer

Answer: a

Explanation: An equi-join is a specific type of comparator-based join, that uses only equality comparisons in the join-predicate.

- 8. Which join refers to join records from the write table that have no matching key in the left table are include in the result set:
- a) Left outer join
- b) Right outer join
- c) Full outer join
- d) Half outer join

View Answer

Answer: b

Explanation: A right outer join will return all the rows that an inner join returns plus one row for each of the other rows in the second table that did not have a match in the first table. It is the same as a left outer join with the tables specified in the opposite order.

- 9. Which operation are allowed in a join view:
- a) UPDATE
- b) INSERT
- c) DELETE
- d) All of the mentioned

View Answer

Answer: d

Explanation: The DELETE statement is used to delete rows in a table. The UPDATE statement is used to update existing records in a table. The INSERT INTO statement is used to insert new records in a table.

- $10. \ Which \ view \ that \ contains \ more \ than \ one \ table \ in \ the \ top-level FROM \ clause \ of \ the \ SELECT \ statement:$
- a) Join view
- b) Datable join view
- c) Updatable join view
- d) All of the mentioned

View Answer

Answer: c

Explanation: The DELETE statement is used to delete rows in a table. The UPDATE statement is used to update existing records in a table. The INSERT INTO statement is used to insert new records in a table.

	rs – Evaluation of Expressions
1. Pictorial representation of an expression	is called
a) Expression tree	
b) Operator tree c) Expression flow	
d) Expression flow	
View Answer	
Amorrow b	
Answer: b Explanation: The operator tree has a tree lik	te format where the evaluation starts from root of the tree.
Emplantation The operation are than a new min	3 13 11 11 11 11 11 11 11 11 11 11 11 11
	n are created and then are used for evaluation of the next-level operations. This is called
a) Materialized evaluation	
b) Expression evaluation	
c) Tree evaluation d) Tree materialization	
View Answer	
Answer: a	
explanation. The cost of a materialized eval	uation is not simply the sum of the costs of the operations involved.
11 4 1 14	to execute more quickly by performing CPU activity in parallel with I/O activity.
3allows the algorithm t	to execute more quickly by performing ("PLI activity in parallel with I/C) activity
VD CC .	to execute more quickly by performing of 6 activity in paramet with 16 activity.
a) Buffering	to execute more quiexty by performing of a deuvity in paramet with 100 deuvity.
b) Double buffering	to execute more quiexty by performing er o activity in paramer with 100 activity.
b) Double buffering c) Multiple buffering	to execute more quickly by performing er o activity in paramer with 100 activity.
b) Double buffering c) Multiple buffering d) Double reading	to execute more quickly by performing er o activity in paramer with 100 activity.
b) Double buffering c) Multiple buffering d) Double reading View Answer	to execute more quickly by performing er o activity in paramer with 100 activity.
b) Double buffering c) Multiple buffering d) Double reading View Answer Answer: a	
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b) Double buffering c) Multiple buffering d) Double reading View Answer Answer: a Explanation: Double buffering using two buf 4. Pipelines can be executed in a) 4 b) 3 c) 2 d) 5 View Answer	
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b) Double buffering c) Multiple buffering d) Double reading View Answer Answer: a Explanation: Double buffering using two buf d. Pipelines can be executed in a) 4 b) 3 c) 2 d) 5 View Answer Answer: c Explanation: Demand driven and producer of Explanation: Demand driven and producer of Demand-driven pipeline	fers, with one continuing execution of the algorithm while the other is being written out. driven pipelines are the two ways.
b) Double buffering c) Multiple buffering d) Double reading Wiew Answer Answer: a Explanation: Double buffering using two buf	fers, with one continuing execution of the algorithm while the other is being written out. driven pipelines are the two ways.
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b) Producer-driven pipeline
e) Demand pipeline
1) All of the mentioned
View Answer
Answer: b
Explanation: Each operation in a producer-driven pipeline is modeled as a separate process or thread within the system that takes a stream of
uples from its pipelined inputs and generates a stream of tuples for its output.
7. Each operation in a demand-driven pipeline can be implemented as anthat provides the following functions: open(), next(), and close()
a) Demand
o) Pipeline
e) Iterator
I) All of the mentioned
View Answer
Answer: c
Explanation: After a call to open(), each call to next() returns the next output tuple of the operation.
2Apranation. Their a can to open(), each can to next() retains the next output tuple of the operation.
3. The iterator maintains theof its execution in between calls so that successive next() requests receive successive result tuples.
a) State
o) Transition
e) Rate
I) Block
View Answer
Answer: a
Explanation: The function close() tells an iterator that no more tuples are required.
O. Tuples are generatedin producer-driven pipelining, they are generatedon demand, in demand-driven pipelining.
) Lazily, Eagerly
o) Eagerly, Lazily
e) Slowly, Eagerly I) Eagerly, Slowly
View Answer
View / Hiswei
Answer: b
Explanation: Producer-driven pipelining is very useful in parallel processing systems.
0. When two inputs that we desire to pipeline into the join are not already sorted it is thetechnique.
to. When two inputs that we desire to pipeline into the join are not already sorted it is thetechnique. 1) Hash join
o) Buffer join
c) double-pipelined hash join
l) double-pipelined join
View Answer
Answer: d
Explanation: When hash indices are used on tuples, the resultant algorithm is called the double-pipelined hash-join technique.

Database Questions and Answers – Transformation of Relational Expressions

Assume {Author, Title} is the key for both schemes. Which of the following statements is true?

- a) Both Book and Collection are in BCNF
- b) Both Book and Collection are in 3NF only
- c) Book is in 2NF and Collection is in 3NF
- d) Both Book and Collection are in 2NF only

View Answer

Answer: c

Explanation: The relation Collection is in BCNF: Its given that {Author, Title} is the key and there is only one functional dependency (FD) applicable to the relation Collection {i.e. Title Author -> Catalog_no}.

The relation schema R is

- a) in BCNF
- b) in 3NF, but not in BCNF
- c) in 2NF, but not in 3NF
- d) not in 2NF

View Answer

Answer: d

Explanation: From the closure set of attributes we can see that the key for the relation is AB. The FD B->G is a partial dependency, hence it is not in 2NF.

- 3. Which of the following is/are false for RAW mode of FOR XML?
- a) XMLSCHEMA option does not returns an in-line XSD schema
- b) BINARY BASE32 returns the binary data in base32-encoded format
- c) Each row in the query result is transformed into an XML element
- d) None of the mentioned

View Answer

Answer: b

Explanation: XML was designed to transport and store data.

- 4. ______refers to the ability of the system to recover committed transaction updates if either the system or the storage media fails.
- a) Isolation
- b) Atomicity
- c) Consistency
- d) Durability

View Answer

Answer: d

Explanation: In database systems, durability is the ACID property which guarantees that transactions that have committed will survive permanently.

- 5. Which utilities can we use to export data from sql server to a text file?
- a) DTS export wizard
- b) BCP
- c) ISQL
- d) DTS export wizard and BCP

View Answer

Answer: d

Explanation: The bcp utility bulk copies data between an instance of Microsoft SQL Server and a data file in a user-specified format.

	only contain values from 0 to 256. What is the most economical data type to use for the column?
a) TINYINT b) SMALLINT	
c) INT	
d) DECIMAL(1)	
View Answer	
VIEW AIISWEI	
Answer: b Explanation: The bcp utility bul	k copies data between an instance of Microsoft SQL Server and a data file in a user-specified format.
7 Duchlama cooper if we don't	implement a proper locking strategy
a) Dirty reads	implement a proper locking strategy
b) Phantom reads	
c) Lost updates	
d) Unrepeatable reads	
View Answer	
, 10 Tallis (10)	
Answer: b	
Explanation: Phantom reads occ	cur when an <mark>insert or delete</mark> action is performed <mark>against a</mark> row that belongs to a range of rows being read by a
transaction.	
8. Which of the following fixed	database roles can add or remove user IDs?
a) db_accessadmin	
b) db_securityadmin	
c) db_setupadmin	
d) db_sysadmin	
View Answer	
Answer: a	ain role manages security, but handles access to the detabase, as the name implies
Answer: a	nin role manages security, but handles access to the database, as the name implies.
Answer: a Explanation: The db_accessadn	
Answer: a Explanation: The db_accessadn 9. By default sql server has	nin role manages security, but handles access to the database, as the name implies. isolation level
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED	
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED	
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE	
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ	
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED	
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Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a	isolation level DEMITHARIAN S/S
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a Explanation: READ UNCOMM	isolation level
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Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a Explanation: READ UNCOMM	isolation level ITTED is the most optimistic concurrency isolation option available in SQL Server.
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a Explanation: READ UNCOMM 10. Which of the following pair a) 1(01)* and (10)*1 b) x(xx)* and (xx)*x c) (ab)* and a*b*	isolation level ITTED is the most optimistic concurrency isolation option available in SQL Server.
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a Explanation: READ UNCOMM 10. Which of the following pair a) 1(01)* and (10)*1 b) x(xx)* and (xx)*x c) (ab)* and a*b* d) x+ and x*x+	isolation level ITTED is the most optimistic concurrency isolation option available in SQL Server.
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Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a Explanation: READ UNCOMM 10. Which of the following pair a) 1(01)* and (10)*1 b) x(xx)* and (xx)*x c) (ab)* and a*b* d) x+ and x*x+ View Answer Answer: c	isolation level ITTED is the most optimistic concurrency isolation option available in SQL Server.
Answer: a Explanation: The db_accessadn 9. By default sql server has a) READ COMMITTED b) READ UNCOMMITTED c) SERIALIZABLE d) REPEATABLE READ View Answer Answer: a Explanation: READ UNCOMM 10. Which of the following pair a) 1(01)* and (10)*1 b) x(xx)* and (xx)*x c) (ab)* and a*b* d) x+ and x*x+ View Answer	isolation level ITTED is the most optimistic concurrency isolation option available in SQL Server.

Database Questions and Answers - Estimating Statistics of Expression Results

- 1. Which feature converts row data to a column for better analytical view?
- a) Views
- b) Join
- c) Pivot
- d) Trigger

View Answer

Answer: c

Explanation: Pivot table is very powerful and very easy to use.

- 2. Which of the following statements is/are not true for SQL profiler?
- a) Enables you to monitor events
- b) Check if rows are being inserted properly
- c) Check the performance of a stored procedure
- d) None of the mentioned

View Answer

Answer: c

Explanation: Stored procedures are like functions which do not return values.

- 3. Which global variables can be used to determine if a transaction is still open?
- a) @@NESTLEVEL
- b) @@FETCH_STATUS
- c) @@TRANCOUNT
- d) @@CONNECTIONS

View Answer

Answer: c

Explanation: PRINT @ @TRANCOUNT — The BEGIN TRAN statement will increment the — transaction count by 1.

- 4. Which statement is used to define a cursor?
- a) OPEN
- b) FETCH
- c) DECLARE CURSOR
- d) @@FETCH_STATUS

View Answer

Answer: c

Explanation: A database cursor is a control structure that enables traversal over the records in a database.

- 5. What is the default "SORT" order for a SQL?
- a) Ascending
- b) Descending
- c) As specified by the user
- d) None of the mentioned

View Answer

Answer: a

Explanation: Default is ascending order.

- 6. Capabilities of RAISERROR
- a) It can be logged in the error log
- b) It can print a message to the application

- c) It can assign an error number, state and severity
- d) All of the mentioned

Answer: d

Explanation: A relational database table is often described as "normalized" if it is in the Third Normal Form because most of the 3NF tables are free of insertion, update, and deletion anomalies.

- 7. How inserting data through stored procedure do reduces network traffic and increase database performance?
- a) Stored procedure can accept parameter
- b) Permission check is not required
- c) The execution plan is stored in the cache after it was executed the first time
- d) None of the mentioned

View Answer

Answer: c

Explanation: A relational database table is often described as "normalized" if it is in the Third Normal Form because most of the 3NF tables are free of insertion, update, and deletion anomalies.

- 8. Stored procedures are safe from SQL injection attacks
- a) True
- b) False
- c) Depends on the result
- d) Always safe

View Answer

Answer: a

Explanation: Injection attack is not possible in SP.

- 9. Which of the following connection type supports application role permissions and password encryption?
- a) OLE DB
- b) DBLib
- c) ODBC
- c) ODBC
 d) OLE DB and ODBC
 View Answer

Answer: d

Explanation: Open Database Connectivity (ODBC) is Microsoft's strategic interface for accessing data in a heterogeneous environment of relational.

- 10. Cursor that reflects the changes made to the database table even after the result set is returned
- a) Static
- b) Dynamic
- c) FORWARD_ONLY
- d) Keyset

View Answer

Answer: b

Explanation: A database cursor is a control structure that enables traversal over the records in a database.

Database Questions and Answers - Materialized Views

- 1. Which normal form is considered adequate for normal relational database design?
- a) 2NF
- b) 5NF
- c) 4NF
- d) 3NF

View Answer

Answer: d

Explanation: A relational database table is often described as "normalized" if it is in the Third Normal Form because most of the 3NF tables are free of insertion, update, and deletion anomalies.

- 2. Consider a schema R(A, B, C, D) and functional dependencies A -> B and C -> D. Then the decomposition of R into R1 (A, B) and R2(C,
- D) is
- a) dependency preserving and lossless join
- b) lossless join but not dependency preserving
- c) dependency preserving but not lossless join
- d) not dependency preserving and not lossless join

View Answer

Answer d

Explanation: While decomposing a relational table we must verify the following properties:

- i) Dependency Preserving Property
- ii) Lossless-Join Property.
- 3. Relation R with an associated set of functional dependencies, F, is decomposed into BCNF. The redundancy (arising out of functional dependencies) in the resulting set of relations is
- a) Zero
- b) More than zero but less than that of an equivalent 3NF decomposition
- c) Proportional to the size of F+
- d) Indeterminate

View Answer

Answer: b

Explanation: Redundancy in BCNF is low when compared to 3NF.

- 4. Which one of the following statements about normal forms is FALSE?
- a) BCNF is stricter than 3NF
- b) Lossless, dependency-preserving decomposition into 3NF is always possible
- c) Lossless, dependency-preserving decomposition into BCNF is always possible
- d) Any relation with two attributes is in BCNF

View Answer

Answer: c

Explanation: Achieving Lossless and dependency-preserving decomposition property into BCNF is difficult.

in terms of normalization, this table is in

- a) 1NF
- b) 2NF
- c) 3NF
- d) None of the mentioned

View Answer

Answer: a

Explanation: Since the primary key is not given we have to derive the primary key of the table. Using the closure set of attributes we get the primary key as (F1,F2). From functional dependencies, "F1->F3, F2->F4", we can see that there is partial functional dependency therefore it is not in 1NF. Hence the table is in 1NF.

- 6. Which of the following is TRUE?
- a) Every relation in 2NF is also in BCNF
- b) A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R
- c) Every relation in BCNF is also in 3NF
- d) No relation can be in both BCNF and 3NF

View Answer

Answer: c

Explanation: A relational database table is often described as "normalized" if it is in the Third Normal Form because most of the 3NF tables are free of insertion, update, and deletion anomalies.

The relation (Roll_number, Name, Date_of_birth, Age) is

- a) In second normal form but not in third normal form
- b) In third normal form but not in BCNF
- c) In BCNF
- d) None of the mentioned

View Answer

Answer: d

Explanation: For the given relation only some of the above FDs are applicable. The applicable FDs are given below:

Date_of_Birth->Age

Name->Roll_number

Roll_number->Name

Finding the closure set of attributes we get the candidate keys:(Roll_number,Date_of_Birth), and (Name,Date_of_Birth).

EWITHA

On selecting any one of the candidate key we can see that the FD Date_of_Birth->Age is a partial dependency. Hence the relation is in 1NF.

The highest normal form of this relation scheme is

- a) 2NF
- b) 3NF
- c) BCNF
- d) 4NF

View Answer

Answer: b

Explanation: A super key is a combination of prime attributes and one or more non-prime key attribute(s). It also uniquely identifies a record in a table. Primary key can be defined as super key with minimal attributes.

- 9. The relation EMPDT1 is defined with attributes empcode(unique), name, street, city, state, and pincode. For any pincode, there is only one city and state. Also, for any given street, city and state, there is just one pincode. In normalization terms EMPDT1 is a relation in
- a) 1NF only
- b) 2NF and hence also in 1NF
- c) 3NF and hence also in 2NF and 1NF
- d) BCNF and hence also in 3NF, 2NF and 1NF

View Answer

Answer: b

Explanation: Empcode is unique, therefore it is the primary key. Since the primary key consists of a single attribute there will be no partial dependency, hence the relation is in 2NF.

From the question we get the FDs as below:

pincode -> city, state

street,city,state -> pincode

From the FDs we can see that there are transitive dependencies, hence the table is not in 3NF.

- 10. Which one of the following statements is FALSE?
- a) Any relation with two attributes is in BCNF
- b) A relation in which every key has only one attribute is in 2NF
- c) A prime attribute can be transitively dependent on a key in a 3 NF relation
- d) A prime attribute can be transitively dependent on a key in a BCNF relation $\,$

Answer: d

Explanation: A table is in 3NF if and only if, for each of its functional dependencies $X \rightarrow A$, at least one of the following conditions holds:

- * X contains A (that is, X -> A is trivial functional dependency), or
- * X is a superkey, or
- * A should be prime attribute.



	estions and Answers – Advanced Query Optimization
1	is a procedural extension of Oracle – SQL that offers language constructs similar to those in imperative programming
languages.	
a) SQL	
b) PL/SQL	
c) Advanced SQL	
d) PQL View Answer	
view Allswer	
Answer: b	
Explanation: PL/SO	QL is an imperative 3GL that was designed specifically for the seamless processing of SQL commands.
2.	combines the data manipulating power of SQL with the data processing power of Procedural languages.
a) PL/SQL	
b) SQL	
c) Advanced SQL	
d) PQL	
View Answer	
Answer: a	
	QL is an imperative 3GL that was designed specifically for the seamless processing of SQL commands.
4. A line of PL/SQ a) Lexical Units b) Literals c) Textual Units d) Identifiers View Answer Answer: a	pracle database is a collection of data treated as a unit. The purpose of a database is to store and retrieve related information. Let text contains groups of characters known as a lexeme, but are not limited to single words.
5. We use	name PL/SQL program objects and units.
a) Lexical Units	
b) Literals	
c) Delimiters	
d) Identifiers	
T.7. A	
View Answer	
View Answer Answer: d	

b) Literals	
c) Delimiters	
d) Identifiers View Answer	
View Answer	
Answer: b	
Explanation: The terms literal and constant value are synonymous	s and refer to a fixed data value.
7. If a bandaria and God shahlada is add shah	PL/SQL block.
7. If no header is specified, the block is said to be ana) Strong	PL/SQL block.
b) Weak	
c) Empty	
d) Anonymous	
View Answer	
Answer: d	
Explanation: The terms literal and constant value are synonymous	s and refer to a fixed data value.
8is a sequence of zero or more characte	ers enclosed by single quotes.
a) Integers literal	
b) String literal	
c) String units	
d) String label View Answer	
View Aliswei	
Answer: b	
Explanation: The terms literal and constant value are synonymous	s and refer to a fixed data value.
9. Inthe management of the password for t	he account can be handled outside of oracle such as operating system.
a) Database Authentication	
b) Operating System Authentication	
c) Internal Authentication	
d) External Authentication	LIADDAV'C/
View Answer	
Answer: b	IIMMINAI VI
	ministration, and maintenance of the databases and database groups in your
enterprise.	, , , , , , , , , , , , , , , , , , , ,
10. In of Oracle, the database administrat	for creates a user account in the database for each user who needs access.
a) Database Authentication	
b) Operating System Authentication	
c) Internal Authentication	
d) External Authentication	
View Answer	
A morrison o	
Answer: a Explanation: Database management involves the monitoring, ad-	ministration, and maintenance of the databases and database groups in your
enterprise.	ministration, and maintenance of the databases and database groups in your

Database Questions and Answers - Transaction Concept

1. Consider money is transferred from (1) account-A to account-B and (2) account-B to account-A. Which of the following form a transaction?	
a) Only 1	
1) 0.1.0	

- b) Only 2
- c) Both 1 and 2 individually
- d) Either 1 or 2

View Answer

Answer: c

Explanation: The term transaction refers to a collection of operations that form a single logical unit of work.

\sim	A	. 11 \ C.1 C
,	A transaction is delimited by statements for til	inction calle) of the form
∠.	A transaction is delimited by statements (or fu	incuon cansi or the rolli

- a) Begin transaction and end transaction
- b) Start transaction and stop transaction
- c) Get transaction and post transaction
- d) Read transaction and write transaction

View Answer

Answer: a

Explanation: The transaction consists of all operations executed between the begin transaction and end transaction.

- 3. Identify the characteristics of transactions
- a) Atomicity
- b) Durability
- c) Isolation
- d) All of the mentioned

View Answer

Answer: d

Explanation: Because of the above three properties, transactions are an ideal way of structuring interaction with a database.

- 4. Which of the following has "all-or-none" property?
- a) Atomicity
- b) Durability
- c) Isolation
- d) All of the mentioned

View Answer

Answer: a

Explanation: Either all operations of the transaction are reflected properly in the database, or none are.

- 5. The database system must take special actions to ensure that transactions operate properly without interference from concurrently executing database statements. This property is referred to as
- a) Atomicity
- b) Durability
- c) Isolation
- d) All of the mentioned

View Answer

Answer: c

Explanation: Even though multiple transactions may execute concurrently, the system guarantees that, for every pair of transactions Ti and Tj, it appears to Ti that either Tj finished execution before Ti started or Tj started execution after Ti finished.

6. The property of a transaction that persists all the crashes is

a) Atomicity				
b) Durability				
c) Isolation				
d) All of the mentioned				
View Answer				
Answer: b				
Explanation: After a transaction comple	tes successfully, the changes	s it has made to the database	persist, even if there are	e system failures.
7. states that only valid d	ata will be written to the data	abase.		
a) Consistency	and will be will to the date			
b) Atomicity				
c) Durability				
d) Isolation				
View Answer				
Answer: a				
Explanation: If for some reason, a trans and the database will be restored to a			cy rules, the entire trans	action will be rolled back
and the database will be restored to a	state consistent with those	rules.		
	4			
8. Transaction processing is associated		ot		
a) Producing detail summary or exceptib) Recording a business activity	on reports			
c) Confirming an action or triggering a r	esponse			
d) Maintaining a data	esponse			
View Answer				
Answer: c				
Explanation: Collections of operations t	nat form a single logical unit	of work are called transaction	ons.	
9. The Oracle RDBMS uses the	statement to declare a new t	ransaction start and its prope	erties.	
a) BEGIN	succinent to declare a new t	ransaction start and its propo	ordes.	
b) SET TRANSACTION	P14/17			
c) BEGIN TRANSACTION	L W			
d) COMMIT				
View Answer				
Answer: b	14			
Explanation: Commit is used to store al	the transactions.			
10means that the data used duri	ng the execution of a transac	tion cannot be used by a sec	and transaction until the	e first one is completed
a) Consistency	ig the execution of a transac	ation cannot be used by a sec	ond transaction until the	Thist one is completed.
b) Atomicity				
c) Durability				
d) Isolation				
View Answer				
Answer: d				
Explanation: Even though multiple trans				ansactions Ti and Tj, it
appears to Ti that either Tj finished ex-	ecution before Ti started or	11 started execution after Ti	rinished.	

Database Questions & Answers - A Simple Transaction Model

- 1. In SQL, which command is used to issue multiple CREATE TABLE, CREATE VIEW and GRANT statements in a single transaction?
- a) CREATE PACKAGE
- b) CREATE SCHEMA
- c) CREATE CLUSTER
- d) All of the mentioned

View Answer

Answer: b

Explanation: A database schema of a database system is its structure described in a formal language supported by the database management system and refers to the organization of data as a blueprint of how a database is constructed.

- 2. In SQL, the CREATE TABLESPACE is used
- a) To create a place in the database for storage of scheme objects, rollback segments, and naming the data files to comprise the tablespace
- b) To create a database trigger
- c) To add/rename data files, to change storage
- d) All of the mentioned

View Answer

Answer: a

Explanation: Triggers are used to initialize the actions for an activity.

- 3. Which character function can be used to return a specified portion of a character string?
- a) INSTR
- b) SUBSTRING
- c) SUBSTR
- d) POS

View Answer

Answer: c

Explanation: SUBSTR are used to match the particular characters in a string.

- 4. Which of the following is TRUE for the System Variable \$date\$?
- a) Can be assigned to a global variable
- b) Can be assigned to any field only during design time
- c) Can be assigned to any variable or field during run time
- d) Can be assigned to a local variable

View Answer

Answer: b

Explanation: A database schema of a database system is its structure described in a formal language supported by the database management system and refers to the organization of data as a blueprint of how a database is constructed.

- 5. What are the different events in Triggers?
- a) Define, Create
- b) Drop, Comment
- c) Insert, Update, Delete
- d) Select, Commit

View Answer

Answer: c

Explanation: A database trigger is a procedural code that is automatically executed in response to certain events on a particular table or view in a database.

6. Which is the subset of SQL commands used to manipulate Oracle Database Structures, including tables?
a) Data Definition Language
b) Data Manipulation Language
c) Data Described Language
d) Data Retrieval Language
View Answer
Answer: a
Explanation: DDL are used to define schema and table characters.
7. The SQL statement SELECT SUBSTR('123456789', INSTR('abcabcabc','b'), 4) FROM EMP; prints
a) 6789
b) 2345
c) 1234
d) 456789
View Answer
Answer: b
Explanation: SUBSTR are used to match the particular characters in a string.
Explanation. 50 B31 K are used to match the particular characters in a string.
8. Which of the following SQL command can be used to modify existing data in a database table?
a) MODIFY
b) UPDATE
c) CHANGE d) NEW
View Answer
VIEW AllSWCI
Answer: b
Explanation: Syntax: UPDATE table_name
SET column1=value1,column2=value2,
WHERE some_column=some_value; .
9. When SQL statements are embedded inside 3GL, we call such a program as
a) Nested query
b) Nested programming
c) Distinct query
d) Embedded SQL
View Answer
Answer: d
Explanation: SQL-99 is the most recent version of standard SQL prescribed by the ANSI.
10provides option for entering SQL queries as execution time, rather than at the development stage.
a) PL/SQL
b) SQL*Plus
c) SQL
d) Dynamic SQL
View Answer
Answer: d
Explanation: Dynamic SQL enables you to write programs that reference SQL statements whose full text is not known until runtime.

Database Ouestion	s and Answers – Storage Structure
	Sund Tind West Strategy
	which do not survive system crashes are
a) Volatile storage	
b) Non-volatile storagec) Stable storage	
d) Dynamic storage	
View Answer	
Answer: a	
	rage, is a computer memory that requires power to maintain the stored information, in other words it needs power mory.
2. Storage devices like ter	rtiary storage, magnetic disk comes under
a) Volatile storage	
b) Non-volatile storage	
c) Stable storage	
d) Dynamic storage	
View Answer	
Answer: b	
Explanation, information is	residing in nonvolatile storage survives system crashes.
c) Stable storage d) Dynamic storage View Answer	
Answer: c Explanation: Similarly, fo database on disk.	or a transaction to be atomic, log records need to be written to stable storage before any changes are made to the
1. The unit of storage that	t can store one are more records in a hash file organization are
a) Buckets	tean store one are more records in a massi time organization are
b) Disk pages	
c) Blocks	
d) Nodes	
View Answer	
Answer: a	
Explanation: Buckets are	used to store one or more records in a hash file organization.
	is software that enables multiple computers to share file storage while maintaining consistent space allocation and fi
content.	
content. a) Storage	
content. a) Storage b) Tertiary	
content. a) Storage b) Tertiary c) Secondary	
content. a) Storage b) Tertiary c) Secondary d) Cluster	
content. a) Storage	
content. a) Storage b) Tertiary c) Secondary d) Cluster	

- 6. A file produced by a spreadsheet
- a) is generally stored on disk in an ASCII text format
- b) can be used as is by the DBMS
- c) all of the mentioned
- d) none of the mentioned

Answer: a

Explanation: ASCII text format uses the standard text file for the changing the value.

- 7. SDL means
- a) Storage Discrete Language
- b) Storage Definition Language
- c) Storage Definition Localisation
- d) Storage Discrete Localisation

View Answer

Answer: b

Explanation: It specifies internal schema and also mapping between two schemas.

- 8. Which of the following are the process of selecting the data storage and data access characteristics of the database?
- a) Logical database design
- b) Physical database design
- c) Testing and performance tuning
- d) Evaluation and selecting

View Answer

Answer: b

Explanation: Physical database design is the process of selecting the data storage and data access characteristics of the database.

- 9. Which of the following is the oldest database model?
- a) Relational
- b) Hierarchical
- c) Physical
- d) Network

View Answer

Answer: d

Explanation: Network model has data stored in a hierarchical network flow.

- 10. The process of saving information onto secondary storage devices is referred to as
- a) Backing up
- b) Restoring
- c) Writing
- d) Reading

View Answer

Answer: c

Explanation: The information is written into the secondary storage device.

Database Questions and Answers - Transaction Atomicity and Durability

- 1. A transaction may not always complete its execution successfully. Such a transaction is termed
- a) Aborted
- b) Terminated
- c) Closed
- d) All of the mentioned

View Answer

Answer: a

Explanation: If we are to ensure the atomicity property, an aborted transaction must have no effect on the state of the database.

- 2. If an transaction is performed in a database and committed, the changes are taken to the previous state of transaction by
- a) Flashback
- b) Rollback
- c) Both Flashback and Rollback
- d) Cannot be done

View Answer

Answer: d

Explanation: Once committed the changes cannot be rolled back.

- 3. Each modification done in database transaction are first recorded into the
- a) Harddrive
- b) Log
- c) Disk
- d) Datamart

View Answer

Answer: b

Explanation: After commit is issued the data are stored in a database and stored in drive.

- 4. When the transaction finishes the final statement the transaction enters into
- a) Active state
- b) Committed state
- c) Partially committed state
- d) Abort state

View Answer

Answer: c

Explanation: The commit statement has to be issued to enter into committed state.

- 5. The name of the transaction file shall be provided by the operator and the file that contains the edited transactions ready for execution shall be called
- a) Batch. Exe
- b) Trans. Exe
- c) Opt. Exe
- d) Edit.Exe

View Answer

Answer: c

Explanation: Transactions has to be managed by the executable files.

- 6. Which of the following is an atomic sequence of database actions?
- a) Transaction

- b) Concurrency
- c) Relations
- d) All of the mentioned

Answer: a

Explanation: Transaction is a collection of operations that provides single logical function in database.

- 7. If the state of the database no longer reflects a real state of the world that the database is supposed to capture, then such a state is called
- a) Consistent state
- b) Parallel state
- c) Atomic state
- d) Inconsistent state

View Answer

Answer: d

Explanation: If the state of the database no longer reflects a real state of the world that the database is supposed to capture, then such a state is called in a consistent state.

8. _____means that data used during the execution of a transaction cannot be used by a second transaction until the first one is completed.

- a) Serializability
- b) Atomicity
- c) Isolation
- d) Time stamping

View Answer

Answer: c

Explanation: Isolation means that data used during the execution of a transaction can't be used by a second transaction until the first one is completed.

- 9. DBMS periodically suspends all processing and synchronizes its files and journals through the use of
- a) Checkpoint facility
- b) Backup facility
- c) Recovery manager
- d) Database change log

View Answer

Answer: a

Explanation: DBMS periodically suspends all processing and synchronizes its files and journals though the use of Check point facility.

10. Which of the following is not a state in transaction?

- a) Active
- b) Terminated
- c) Aborted
- d) Partially committed

View Answer

Answer: b

Explanation: The transaction states are abort, active, committed, partially committed, Failed.

i-i	
1joins are SQL server default a) Outer	
b) Inner	
e) Equi	
d) None of the Mentioned	
View Answer	
Answer: b	
Explanation: Inner query joins only the rows that are matching.	
2. Theis essentially used to search for pa	afterns in farget string
a) Like Predicate	
b) Null Predicate	
c) In Predicate	
d) Out Predicate	
View Answer	
Answer: a	
Explanation: Like matches the pattern with the query.	
3. Which of the following is/are the Database server functions?	
) Data management	
i) Transaction management	
ii) Compile queries	
v) Query optimization	
a) i, ii, and iv only	
o) i, ii and iii only	
e) ii, iii and iv only	
d) All i, ii, iii, and iv	
View Answer	ruadoav'e/_
Answer: a	IIMINING VI -
Explanation: All these are functions of the database.	
4. To delete a databasecommand is used	
a) Delete database database_name	
b) Delete database_name	
e) drop database database_name	
d) drop database_name	
View Answer	
Answer: c	
Explanation: This will delete the database with its structure.	
is a combination of two of more attributes u	used as a primary key
a) Composite Key	as a primary ney
b) Alternate Key	
c) Candidate Key	
d) Foreign Key	
View Answer	
, 10 m 1 kH0 W01	
Answer: a	

Which of the following is not the function of client?
Which of the following is not the function of client? Compile queries
Query optimization
Receive queries
Result formatting and presentation
iew Answer
nswer: b
xplanation: Query optimization is used to improve quality.
is a special type of stored procedure that is automatically invoked whenever the data in the table is modified.
) Procedure
) Trigger) Curser
) None of the Mentioned
iew Answer
ICW Philawer
nswer: b
xplanation: Triggers are used to initiate an a <mark>ction to take pl</mark> ace.
requires that data should be made available to only authorized users.
Data integrity
) Privacy
) Security) None of the Mentioned
iew Answer
ICW Allowel
nswer: c
xplanation: Some algorithms may be used for the security.
Some of the utilities of DBMS are
Loading ii) Backup iii) File organization iv) Process Organization
i, ii, and iv only
) i, ii and iii only
) ii, iii and iv only) All i, ii, iii, and iv
iew Answer
ICW / MISWOI
nswer: b
xplanation: Processing is not the a utility in dbms.
0allows individual row operation to be performed on a given result set or on the generated by a selected
atement.
) Procedure
) Trigger) Curser
) None of the Mentioned
iew Answer
nswer: c
xplanation: Triggers are used to initiate an action to take place.

1. Which s essential a business problem not a data problem:a) Data	
b) Database	
c) Database design	
d) All of the mentioned	
View Answer	
Answer: c	ANGL
Explanation: SQL-99 is the most recent version of standard SQL prescribed by the	ANSI.
2. Which is primarily the result of a thorough understanding of information about an e	enterprise:
a) Data	
b) Database	
c) Database design	
d) Data modeling	
View Answer	
Answer d	
Answer: d Explanation: Data modelling designs th <mark>e data in a</mark> secured manner.	
Aphanaton. Data moderning designs are data in a secured mainter.	
McFadden has defined normalization in his which book	
a) Database modern management	
o) Management database of modern	
c) Modern database managem <mark>e</mark> nt	
l) Database management	
View Answer	
Answer: c	
Explanation: SQL-99 is the most recent version of standard SQL prescribed by the	ANSI
Explanation: 5QL-99 is the most recent version of standard 5QL preserioed by the	11101.
1. The detabase decign property some data from being represented due to	
	ANAI 2//
a) Deletion anomalies	ANAI 3/-
a) Deletion anomalies b) Insertion anomalies	ARAI 3/-
a) Deletion anomalies b) Insertion anomalies c) Update anomaly	ARAI 3/-
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned	ARAI 3/-
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer	ARAI 3/
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer Answer: b	MAI 3/
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer Answer: b	MAI 3/
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a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer Answer: b Explanation: Insertion anomaly is due to confusion in data deletion or insertion. 5. How many types of insertion anomalies:	MAI 3/
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned Wiew Answer Answer: b Explanation: Insertion anomaly is due to confusion in data deletion or insertion. 5. How many types of insertion anomalies: a) 1	MAIS
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer Answer: b Explanation: Insertion anomaly is due to confusion in data deletion or insertion. 5. How many types of insertion anomalies: a) 1 b) 2	
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned Wiew Answer Answer: b Explanation: Insertion anomaly is due to confusion in data deletion or insertion. 5. How many types of insertion anomalies: a) 1 b) 2 c) 3	
a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer Answer: b Explanation: Insertion anomaly is due to confusion in data deletion or insertion. 5. How many types of insertion anomalies: a) 1 b) 2 c) 3 d) 4	
4. The database design prevents some data from being represented due to a) Deletion anomalies b) Insertion anomalies c) Update anomaly d) None of the mentioned View Answer Answer: b Explanation: Insertion anomaly is due to confusion in data deletion or insertion. 5. How many types of insertion anomalies: a) 1 b) 2 c) 3 d) 4 View Answer Answer: b	

- c) E.E. codd
- d) None of the mentioned

Answer: a

Explanation: Normalization helps in improving the quality of the data.

- 7. E.F.Codd developed the normalization process in the which early:
- a) 1969
- b) 1970
- c) 1971
- d) 1972

View Answer

Answer: b

Explanation: Normalization helps in improving the quality of the data.

- 8. Which is a bottom-up approach to database design that design by examining the relationship between attributes:
- a) Functional dependency
- b) Database modeling
- c) Normalization
- d) Decomposition

View Answer

Answer: c

Explanation: Normalization helps in improving the quality of the data.

- 9. Which is the process of breaking a relation into multiple relations:
- a) Functional dependency
- b) Database modeling
- c) Normalization
- d) Decomposition

View Answer

Answer: d

Explanation: SQL-99 is the most recent version of standard SQL prescribed by the ANSI.

- 10. Which formal method that locates and analyses relation schemas on the basis of their primary, candidate keys, and the FD's that are present among the attributes of these schemas:
- a) Functional dependency
- b) Database modeling
- c) Normalization
- d) Decomposition

View Answer

Answer: c

Explanation: Normalization helps in improving the quality of the data.

	ion due to which no further progress is possible as computer await response of each other:
a) Concurrency	
b) Deadlock	
c) Backup	
d) Recovery	
View Answer	
Answer: b	
Explanation: Deadlock will stop further	rocessing
Explanation: Betation will stop further	processing.
2. Which is a duplicate copy of a file p	rogram that is stored on a different storage media than the original location:
a) Concurrency	
b) Deadlock	
c) Backup	
d) Recovery	
View Answer	
Answer: c	
Explanation: Backup is required to tak	e all the data.
a) Concurrency b) Deadlock c) Backup d) Recovery View Answer Answer: d Explanation: Recovery means to take 4. Optimization that is basically related a) Semantic query optimization b) Global query optimization c) All of the Mentioned d) None of the Mentioned View Answer Answer: a Explanation: SQL-99 is the most rece	CW/ITHADDAY'C/
5. Optimization basically related to the	Rewrite module is termed as
a) Semantic query optimization	
b) Global query optimization c) All of the Mentioned	
d) None of the Mentioned	
View Answer	
Answer: a	

Explanation: Backup is required to take all the data. 8. How many types of recovery control techniques: a) 2 b) 3 c) 4 d) 5 View Answer Answer: a Explanation: Recovery means to take the backup data while there is a crash. 9. Which are types of recovery control techniques: a) Deferred update b) Inmediate update c) All of the Mentioned d) None of the Mentioned View Answer Answer: c Explanation: Recovery means to take the backup data while there is a crash.		
d) Non internal users View Answer Answer: b. Explanation: External users are the people who do not involve in the processing of the database. 7. Copying files to secondary or specific devices is known as		
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a) Retrieve b) Backup c) Recovery d) Deadlock View Answer Answer: b Explanation: Backup is required to take all the data. 8. How many types of recovery control techniques: a) 2 b) 3 c) 4 d) 5 View Answer Answer: a Explanation: Recovery means to take the backup data while there is a crash. 9. Which are types of recovery control techniques: a) Deferred update b) Immediate update c) All of the Mentioned d) None of the Mentioned d) None of the Mentioned View Answer Answer: c Explanation: Recovery means to take the backup data while there is a crash.	Explanation: Ex	ternal users are the people who do not involve in the processing of the database.
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d) 5 View Answer: a Explanation: Recovery means to take the backup data while there is a crash. 9. Which are types of recovery control techniques: a) Deferred update b) Inmediate update c) All of the Mentioned d) None of the Mentioned View Answer Answer: c Explanation: Recovery means to take the backup data while there is a crash. 10. Which server can join the indexes when only multiple indexes combined can cover the query: a) SQL b) DBMS c) RDBMS d) All of the mentioned View Answer Answer: a	b) 3	
View Answer: a Explanation: Recovery means to take the backup data while there is a crash. 9. Which are types of recovery control techniques: a) Deferred update b) Immediate update c) All of the Mentioned d) None of the Mentioned View Answer Answer: c Explanation: Recovery means to take the backup data while there is a crash. 10. Which server can join the indexes when only multiple indexes combined can cover the query: a) SQL b) DBMS c) RDBMS d) All of the mentioned View Answer: Answer: a		
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Explanation: Recovery means to take the backup data while there is a crash. 9. Which are types of recovery control techniques: a) Deferred update b) Immediate update c) All of the Mentioned d) None of the Mentioned View Answer Answer: c Explanation: Recovery means to take the backup data while there is a crash. 10. Which server can join the indexes when only multiple indexes combined can cover the query: a) SQL b) DBMS c) RDBMS d) All of the mentioned View Answer: Answer: a	Answer: a	
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a) SQL b) DBMS c) RDBMS d) All of the mentioned View Answer	a) Deferred upo b) Immediate u c) All of the Me d) None of the View Answer Answer: c	ate date ntioned Mentioned
b) DBMS c) RDBMS d) All of the mentioned View Answer		r can join the indexes when only multiple indexes combined can cover the query:
c) RDBMS d) All of the mentioned View Answer Answer: a	a) SQL	
d) All of the mentioned View Answer Answer: a		
View Answer Answer: a		ationed
Answer: a		Molecu
	view impwei	
Explanation: Indexing reduces the difficulty in searching the data.	Answer: a	
	Explanation: Inc	exing reduces the difficulty in searching the data.

Detahase Questions and Angrous Involumentation of Isolation Lavels	
Database Questions and Answers – Implementation of Isolation Levels	
1. In concurrency control policy the lock is obtained on	
a) Entire database b) A particular transaction alone	
c) All the new elements	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: It is to avoid deadlock.	
2. A concurrency-control policy such as this one leads toperformance since it forces transactions to wait for finish before they can start. a) Good b) Average c) Poor d) Unstable View Answer	preceding transactions to
A service of	
Answer: c Explanation: It provides a poor degree of concurrency.	
a) Zone b) Relay c) Line d) Timestamps View Answer Answer: d Explanation: When this is not possible, offending transactions are aborted and restarted with a new timestamp.	C /_
View Answer Answer: c Explanation: View is the temporary space created for the database.	
5. In which scenario would you use the ROLLUP operator for expression or columns within a GROUP BY clause? a) To find the groups forming the subtotal in a row b) To create group-wise grand totals for the groups specified within a GROUP BY clause c) To create a grouping for expressions or columns specified within a GROUP BY clause in one direction, from right subtotals	to left for calculating the
 d) To create a grouping for expressions or columns specified within a GROUP BY clause in all possible directions, w for calculating the subtotals View Answer 	hich is cross-tabular repor
Answer: c Explanation: View is the temporary space created for the database.	
Which rows would be made permanent in the CUST table? a) row 4 only b) rows 2 and 4 c) rows 3 and 4 d) rows 1 and 4 View Answer	

Answer: c Explanation: View is the temporary space created for the database. 7. Which statement is true regarding external tables? a) The default REJECT LIMIT for external tables is UNLIMITED b) The data and metadata for an external table are stored outside the database c) ORACLE_LOADER and ORACLE_DATAPUMP have exactly the same functionality when used with an external table d) The CREATE TABLE AS SELECT statement can be used to unload data into regular table in the database from an external table View Answer Answer: d Explanation: This will replicate the table as in the select statement. 8. A non-correlated subquery can be defined as a) A set of sequential queries, all of which must always return a single value b) A set of sequential queries, all of which must return values from the same table c) A SELECT statement that can be embedded in a clause of another SELECT statement only d) A set of one or more sequential queries in which generally the result of the inner query is used as the search value in the outer query View Answer

Answer: d

Explanation: This will replicate the table as in the select statement.

Which statement is true regarding the above FLASHBACK operation?

- a) It recovers only the first DEPT table
- b) It recovers only the second DEPT table
- c) It does not recover any of the tables because FLASHBACK is not possible in this case
- d) It recovers both the tables but the names would be changed to the ones assigned in the RECYCLEBIN

View Answer

Answer: b

Explanation: This will replicate the table as in the select statement.

What would be the outcome of the above query?

- a) It would not display any values
- b) It would display the value TWO once
- c) It would display the value TWO twice
- d) It would display the values ONE, TWO, and TWO

View Answer

Answer: c

Explanation: This will replicate the table as in the select statement.

Database Questions and Answers – Transactions as	SQL Statements
Which of the following is not a property of transactions?	
a) Atomicity	
b) Concurrency	
c) Isolation	
d) Durability	
View Answer	
Answer: d	
Explanation: ACID properties are the properties of transactions.	
2. SNAPSHOT is used for (DBA)	
a) Synonym	
b) Tablespace	
c) System server	
d) Dynamic data replication	
View Answer	
Answer: d	
Explanation: Snapshot gets the instance of the database at that time.	
Explanation. Shapshot gets the histance of the database at that time.	
3. Isolation of the transactions is ensured by	
a) Transaction management	
b) Application programmer	
c) Concurrency control	
d) Recovery management	
View Answer	
A	
Answer: c Explanation: ACID properties are the properties of transactions.	
explanation. ACID properties are the properties of transactions.	11 DD 11/10 /.
4. Constraint checking can be disabled in existing	andconstraints so that any data you modify or add
the table is not checked against the constraint.	MINIAI VI-
a) CHECK, FOREIGN KEY	
b) DELETE, FOREIGN KEY	
c) CHECK, PRIMARY KEY	
d) PRIMARY KEY, FOREIGN KEY	
View Answer	
Answer: a	
Explanation: Check and foreign constraints are used to constraint the tal	ble data.
5. Duchlama a course if we don't implement a manual aching strategy.	
5. Problems occurs if we don't implement a proper locking strategy a) Dirty reads	
b) Phantom reads	
c) Lost updates	
d) Unrepeatable reads	
View Answer	
Answer: d	
Explanation: In a concurrent execution of these transactions, it is intuitive	ely clear that they conflict, but this is a conflict not captured by our
simple model. This situation is referred to as the phantom phenomenor	

a) db_accessadmin
b) db_securityadmin
c) db_setupadmin
d) db_sysadmin
View Answer
Answer: a
Explanation: The database can be accessed by assigning the roles.
7. By default sql server hasisolation level
a) READ COMMITTED
b) READ UNCOMMITTED
c) SERIALIZABLE
d) REPEATABLE READ
View Answer
Answer: a
Explanation: Read committed is used to commit the default read operation.
8. Which of the following statements is/are not true for SQL profiler? a) Enables you to monitor events b) Check if rows are being inserted properly
c) Check the performance of a stored procedure
d) ALL of the mentioned
View Answer
Answer: c
Explanation: Read committed is used to commit the default read operation.
9. Which of the following is the original purpose of SQL?
a) To specify the syntax and semantics of SQL data definition language
b) To specify the syntax and semantics of SQL manipulation language
c) To define the data structures
d) All of the mentioned
View Answer
Answer: d
Explanation: Read committed is used to commit the default read operation.
10. SQL can be used to:
a) Create database structures only
b) Query database data only
c) Modify database data only
d) All of the mentioned

Explanation: In a concurrent execution of these transactions, it is intuitively clear that they conflict, but this is a conflict not captured by our

simple model. This situation is referred to as the phantom phenomenon, because a conflict may exist on "phantom" data.

View Answer

Answer: d

Database Questions and Answers – Lock-Based Protocols
 In order to maintain transactional integrity and database consistency, what technology does a DBMS deploy? Triggers Pointers
c) Locks
d) Cursors View Answer
Answer: c Explanation: Locks are used to maintain database consistency.
2. A lock that allows concurrent transactions to access different rows of the same table is known as a a) Database-level lock b) Table-level lock c) Page-level lock d) Row-level lock View Answer Answer:
Explanation: Locks are used to maintain database consistency.
 3. Which of the following are introduced to reduce the overheads caused by the log-based recovery? a) Checkpoints b) Indices c) Deadlocks d) Locks View Answer
Answer: a Explanation: Checkpoints are introduced to reduce overheads caused by the log-based recovery.
4. Which of the following protocols ensures conflict serializability and safety from deadlocks? a) Two-phase locking protocol b) Time-stamp ordering protocol
c) Graph based protocol d) None of the mentioned View Answer
Answer: b Explanation: Time-stamp ordering protocol ensures conflict serializability and safety from deadlocks.
5. Which of the following is the block that is not permitted to be written back to the disk?a) Dead codeb) Read onlyc) Pinned
d) Zapped View Answer

6. If transaction Ti gets an explicit lock on the file Fc in exclusive mode, then it has an ______on all the records belonging to that file.

Explanation: A block that is not permitted to be written back to the disk is called pinned.

a) Explicit lock in exclusive modeb) Implicit lock in shared mode

c) Explicit lock in shared mode	
d) Implicit lock in exclusive mode	
View Answer	
Answer: d	
	on the file Fc in exclusive mode, then it has an implicit lock in exclusive mode on all the
records belonging to that file.	T
7. Which refers to a property of computer to run s	several operation simultaneously and possible as computers await response of each other
a) Concurrency	
b) Deadlock	
c) Backup	
d) Recovery	
View Answer	
Answer: a	
	in which several computations are executing simultaneously, and potentially interacting with
each other.	
8. All lock information is managed by a	which is responsible for assigning and policing the locks used by the transactions.
a) Scheduler	
b) DBMS	
c) Lock manager	
d) Locking agent	
View Answer	
Answer: c	
Explanation: A distributed lock manager (DLM) p	provides distributed software applications with a means to synchronize their accesses to share
resources.	
9. Thelock allows concurrent transactions t	to access the same row as long as they require the use of different fields within that row.
a) Table-level	
b) Page-level	MITHER AWAY
c) Row-level	
d) Field-level	
View Answer	
Answer: d	
Explanation: Lock is limited to the attributes of the	relation.
10. Which of the following is a procedure for acq	uiring the necessary locks for a transaction where all necessary locks are acquired before any
are released?	
a) Record controller	
b) Exclusive lock	
c) Authorization rule	
d) Two phase lock	

Explanation: Two-phase lock is a procedure for acquiring the necessary locks for a transaction where all necessary locks are acquired before

View Answer

any are released.

Answer: d

Database Question	ons and Answers – Deadlocks
set.	state if there exists a set of transactions such that every transaction in the set is waiting for another transaction in the
a) Idle	
b) Waiting	
c) Deadlock	
d) Ready	
View Answer	
Answer: c Explanation: When one	e data item is waiting for another data item in a transaction then system is in deadlock.
2. The deadlesk state	can be abanced healt to stable state by using
a) Commit	can be changed back to stable state by usingstatement.
b) Rollback	
c) Savepoint d) Deadlock	
View Answer	
View Aliswei	
Answer: b Explanation: Rollback	is used to rollback to the point before lock is obtained.
c) Deadlock detection d) All of the mentioned View Answer	
	s prevention is also called as deadlock recovery. Prevention is commonly used if the probability that the system would is relatively high; otherwise, detection and recovery are more efficient.
	i requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp smaller than that of Tj (that is, T
is older than Tj). Othe	erwise, Ti is rolled back (dies). This is
is older than Tj). Othe a) Wait-die	erwise, 111s rolled back (dies). This is
is older than Tj). Othe a) Wait-die b) Wait-wound	erwise, 111s rolled back (dies). This is
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait	erwise, 111s rolled back (dies). 1 his is
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait	erwise, 111s rolled back (dies). I his is
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait	erwise, 111s rolled back (dies). I his is
is older than Tj). Othe	erwise, 111s rolled back (dies). I his is
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a	-die scheme is a non-preemptive technique.
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a	
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait-	
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti	-die scheme is a non-preemptive technique.
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti younger than Tj). Oth	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti younger than Tj). Oth a) Wait-die	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti younger than Tj). Oth a) Wait-die b) Wait-wound c) Wound-wait	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti younger than Tj). Oth a) Wait-die b) Wait-wound	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti younger than Tj). Oth a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T
is older than Tj). Othe a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: a Explanation: The wait— 5. When transaction Ti younger than Tj). Oth a) Wait-die b) Wait-wound c) Wound-wait d) Wait View Answer Answer: c	-die scheme is a non-preemptive technique. Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, T

	ack waits only for a specified amount of time for another lock to be released is
a) Lock timeout	ock waits only for a specified amount of time for another lock to be released is
b) Wait-wound	
c) Timeout	
d) Wait	
View Answer	
Answer: a	
to deadlocks.	heme is particularly easy to implement, and works well if transactions are short and if longwaits are likely to be d
to deadlocks.	
7. The deadlock in a set of a	transaction can be determined by
a) Read-only graph	
b) Wait graph	
c) Wait-for graph	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: Each transaction	n involved in the cycle is said to be deadlocked.
9 A doodlook oviets in the s	ystem if and only if the wait-for graph contains a
a) Cycle	ystem if and only if the wait-for graph contains a
b) Direction	
b) Direction c) Bi-direction	
b) Directionc) Bi-directiond) Rotation	
b) Direction c) Bi-direction d) Rotation View Answer	
b) Direction c) Bi-direction d) Rotation View Answer Answer: a	
b) Direction c) Bi-direction d) Rotation View Answer Answer: a	n involved in the cycle is said to be deadlocked.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used ms the transaction needs for it to complete
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b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used and the transaction needs for it to complete back those transactions that will incur the minimum cost.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total b) Partial	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used and the transaction needs for it to complete back those transactions that will incur the minimum cost.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total b) Partial c) Time	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used and the transaction needs for it to complete back those transactions that will incur the minimum cost.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total b) Partial c) Time d) Commit	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used and the transaction needs for it to complete back those transactions that will incur the minimum cost.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total b) Partial c) Time d) Commit	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used and the transaction needs for it to complete back those transactions that will incur the minimum cost.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total b) Partial c) Time d) Commit View Answer Answer: b	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used ans the transaction needs for it to complete back those transactions that will incur the minimum cost. Bequires the system to maintain additional information about the state of all the running transactions.
b) Direction c) Bi-direction d) Rotation View Answer Answer: a Explanation: Each transaction 9. Selecting the victim to be a) How long the transaction b) How many data items the c) How many more data item d) All of the mentioned View Answer Answer: d Explanation: We should roll to 10rollback re a) Total b) Partial c) Time d) Commit View Answer Answer: b	rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is has computed, and how much longer the transaction will compute before it completes its designated task transaction has used and the transaction needs for it to complete back those transactions that will incur the minimum cost.

<u> </u>	rity
1. In a granularity hierarchy the highest level represents the	
a) Entire database	
b) Area c) File	
d) Record	
View Answer	
Answer: a	
Explanation: This level is the root of the tree.	
2. In a database the file is contained in	
a) Entire database	
b) Two area	
c) One area d) more than one area	
View Answer	
Answer: c Explanation: This level is below the roo <mark>t of the tre</mark> e.	
Explanation. This level is below the foot of the tree.	
3. If a node is locked in an intention mode, explicit locking is done at a lo	ower level of the tree. This is called
a) Intention lock modes	wer level of the tree. This is earlied
b) Explicit lock	
c) Implicit lock	
d) Exclusive lock	
View Answer	
Answer: a	
Explanation: There is an intention mode associated with shared mode, and	d there is one with an exclusive mode.
· -conculitu	ADDAY'C/
	lower level of the tree, but with only shared-mode locks.
a) Intention lock modes b) Intention-shared-exclusive mode	
c) Intention-exclusive (IX) mode	
d) Intention-shared (IS) mode	
View Answer	
Answer: a Explanation: There is an intention mode associated with shared mode, and	d there is one with an exclusive mode
Explanation. There is an intention mode associated with shared mode, and	a diere is one with an exercisive mode.
5. If a node is locked inthen explicit locking is being do	one at a lower level, with exclusive-mode or shared-mode locks.
a) Intention lock modes	
b) Intention-shared-exclusive mode	
-) Intention and Indian (IV) and In	
d) Intention-shared (IS) mode	
d) Intention-shared (IS) mode	
c) Intention-exclusive (IX) mode d) Intention-shared (IS) mode View Answer Answer: c	

b) shared and intention-exclusive (SIX) mode
c) Intention-exclusive (IX) mode
l) Intention-shared (IS) mode
View Answer
Answer: b
Explanation: There is an intention mode associated with shared mode, and there is one with an exclusive mode.
denotes the largest timestamp of any transaction that executed write(Q) successfully.
$\overline{\text{W-timestamp}(Q)}$
) R-timestamp(Q)
e) RW-timestamp(Q)
l) WR-timestamp(Q)
View Answer
Answer: a
Explanation: The most common method for doing ordering transaction is to use a timestamp-ordering scheme.
3. Theensures that any conflicting read and write operations are executed in timestamp order.
a) Timestamp-ordering protocol
b) Timestamp protocol
e) W-timestamp
d) R-timestamp
View Answer
Answer: a
Explanation: The most common method for doing ordering transaction is to use a timestamp-ordering scheme.
D. Therequires that each transaction Ti executes in two or three different phases in its lifetime, depending on whether it is a real
only or an update transaction.
a) Validation protocol
o) Validation-based protocol
c) Timestamp protocol
l) Timestamp-ordering protocol
View Answer
A
Answer: a
Explanation: A concurrency-control scheme imposes the overhead of code execution and possible delay of transactions. It may be better to use the second of the control of t
an alternative scheme that imposes less overhead.
10. This validation scheme is called thescheme since transactions execute optimistically, assuming they will be able to finish
execution and validate at the end.
a) Validation protocol
b) Validation-based protocol
c) Timestamp protocol
d) Optimistic concurrency-control
View Answer
Answer: a
Explanation: A concurrency-control scheme imposes the overhead of code execution and possible delay of transactions. It may be better to use the concurrency control scheme imposes the overhead of code execution and possible delay of transactions. It may be better to use the concurrency control scheme imposes the overhead of code execution and possible delay of transactions.
an alternative scheme that imposes less overhead.

Database Questions and Answers – Multiversion Schemes
The most recent version of standard SQL prescribed by the American National Standards Institute is SQL 2016 SQL 2002
b) SQL 2002
c) SQL – 4
d) SQL2 View Answer
VIEW AllSWEI
Answer: a
Explanation: SQL-2016 is the most recent version of standard SQL prescribed by the ANSI.
2. ANSI-standard SQL allows the use of special operators in conjunction with the WHERE clause. A special operator used to check whether an attribute value is null isa) BETWEEN
b) IS NULL
c) LIKE
d) IN
View Answer
Answer: b Explanation: Exists is used to check whether an attribute value is null or not in conjunction with the where clause.
 3. A lock that prevents the use of any tables in the database from one transaction while another transaction is being processed is called a a) Database-level lock b) Table-level lock c) Page-level lock d) Row-level lock View Answer
Answer: a
Explanation: Data base-level lock prevents the use of any tables in the data base from one transaction while another transaction is being
processed.
4. A condition that occurs when two transactions wait for each other to unlock data is known as a(n) a) Shared lock
b) Exclusive lock
c) Binary lock
d) Deadlock View Answer
VICW I HISWCI
Answer: d
Explanation: Deadlock occurs when two transactions wait for each other to unlock data.
5means that data used during the execution of a transaction cannot be used by a second transaction until the first one is completed.
a) Serializability
b) Atomicity
c) Isolation
d) Time stamping

Explanation: Isolation means that data used during the execution of a transaction can't be used by a second transaction until the first one is

View Answer

completed.

- 6. A unit of storage that can store one or more records in a hash file organization is denoted as
- a) Buckets
- b) Disk pages
- c) Blocks
- d) Nodes

View Answer

Answer: a

Explanation: Buckets are used to store one or more records in a hash file organization.

- 7. The file organization which allows us to read records that would satisfy the join condition by using one block read is
- a) Heap file organization
- b) Sequential file organization
- c) Clustering file organization
- d) Hash files organization

View Answer

Answer: c

Explanation: Clustering file organization allows us to read records that would satisfy the join condition by using one block read.

- 8. Which of the following is not true about B+ trees?
- a) B+ tree index takes the form of balanced tree
- b) Performance of B+ tree degrades as the file grows
- c) Look-up in B+ tree is straightforward and efficient
- d) Insertion and deletion in B+ tree is complicated but efficient

View Answer

Answer: b

Explanation: The answer is evident.

- 9. The extent of the database resource that is included with each lock is called the level of
- a) Impact
- b) Granularity
- c) Management
- d) DBMS control

View Answer

Answer: b

Explanation: The extent of the data base resource that is included with each lock is called the level of Granularity.

- 10. DBMS periodically suspends all processing and synchronizes its files and journals through the use of
- a) Checkpoint facility
- b) Backup facility
- c) Recovery manager
- d) Database change log

View Answer

Answer: a

Explanation: DBMS periodically suspends all processing and synchronizes its files and journals through the use of Check point facility.

a) Concurrency-controlb) Concurrency-allowance	scheme.
b) Concurrency-allowance	
o) concurrency and wanter	
c) Redirection	
d) Repetition-allowance	
View Answer	
Answer: a	
	commercial and open-source systems, including Oracle, PostgreSQL, and SQL Server.
2. Snapshot isolation is used to give	
a) Transaction a snapshot of the database	
b) Database a snapshot of the transaction	
c) Database a snapshot of committed values in	
-	Database a snapshot of committed values in the transaction
View Answer	
Answer: d	
	nsist only of values written by committed transactions.
Answer: a Explanation: Lost update problem has to be reserved. 4. Under first updater wins the system uses a a) Close b) Read c) Locking d) Beat View Answer	mechanism that applies only to updates.
Answer c	e they do not obtain locks.
Explanation: Reads are unaffected by this, since	lata item, it requests aon that data item.
Explanation: Reads are unaffected by this, since 5. When a transaction Ti attempts to update a d	lata item, it requests aon that data item.
Explanation: Reads are unaffected by this, since 5. When a transaction Ti attempts to update a da a) Read lock	lata item, it requests aon that data item.
Explanation: Reads are unaffected by this, since 5. When a transaction Ti attempts to update a d a) Read lock b) Update lock	lata item, it requests aon that data item.
Explanation: Reads are unaffected by this, since 5. When a transaction Ti attempts to update a da a) Read lock b) Update lock c) Write lock	lata item, it requests aon that data item.
Answer: c Explanation: Reads are unaffected by this, since 5. When a transaction Ti attempts to update a da a) Read lock b) Update lock c) Write lock d) Chain lock View Answer	lata item, it requests aon that data item.

- c) Write lock
- d) None of the mentioned

View Answer

Answer: d

Explanation: Write skew is the issue addressed here.

- 7. An application developer can guard against certain snapshot anomalies by appending a _____ clause to the SQL select query.
- a) For update
- b) For read
- c) For write
- d) None of the mentioned

View Answer

Answer: a

Explanation: Adding the for update clause causes the system to treat data that are read as if they had been updated for purposes of concurrency control.

Which statement is true regarding the PROD_ID_PK constraint?

- a) It would be created only if a unique index is manually created first
- b) It would be created and would use an automatically created unique index
- c) It would be created and would use an automatically created no unique index
- d) It would be created and remains in a disabled state because no index is specified in the command

View Answer

Answer: b

Explanation: Syntax: create table table_name(name constraint).

The sequence SEQ1 has generated numbers up to the maximum limit of 200. You issue the following SQL statement:

EWITHAR

SELECT seq1.nextval FROM dual;

What is displayed by the SELECT statement?

a) 1

b) 10

c) 100

View Answer

VICW / MISWC

Answer: a

Explanation: Sequence is used to generate a series of values.

- 10. In which scenario would you use the ROLLUP operator for expression or columns within a GROUP BY clause?
- a) To find the groups forming the subtotal in a row
- b) To create group-wise grand totals for the groups specified within a GROUP BY clause $\,$
- c) To create a grouping for expressions or columns specified within a GROUP BY clause in one direction, from right to left for calculating the subtotals
- d) To create a grouping for expressions or columns specified within a GROUP BY clause in all possible directions, which is cross-tabular report for calculating the subtotals

View Answer

Answer: c

Explanation: Sequence is used to generate a series of values.

Database Questions and Answers – Insertion Deletion Predicate Reads

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

- 1. Which statements are correct regarding indexes?
- a) When a table is dropped, the corresponding indexes are automatically dropped
- b) For each DML operation performed, the corresponding indexes are automatically updated
- c) A non-deferrable PRIMARY KEY or UNIQUE KEY constraint in a table automatically creates a unique index
- d) All of the mentioned

View Answer

Answer: d

Explanation: Indexes are used to access the data efficiently.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

The DELETE statement results in the following error:

ERROR at line 1: table or view does not exist

What would be the outcome?

- a) All the statements before the DELETE statement would be rolled back
- b) All the statements before the DELETE statement would be implicitly committed within the session
- c) All the statements up to the ALTER TABLE statement would be committed and the outcome of UPDATE statement would be rolled back
- d) All the statements up to the ALTER TABLE statement would be committed and the outcome of the UPDATE statement is retained uncommitted within the session

View Answer

Answer: d

Explanation: Committing a transaction refers to making the changes to record in the database.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description = 'TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
```

```
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

What would be the outcome of the above query?

- a) It would not display any values
- b) It would display the value TWO once
- c) It would display the value TWO twice
- d) It would display the values ONE, TWO, and TWO

View Answer

Answer: c

Explanation: The VERSIONS BETWEEN clause of the SELECT statement is used to create a Flashback Version Query.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

- 4. A non-correlated subquery can be defined as
- a) A set of sequential queries, all of which must always return a single value
- b) A set of sequential queries, all of which must return values from the same table
- c) A SELECT statement that can be embedded in a clause of another SELECT statement only
- d) A set of one or more sequential queries in which generally the result of the inner query is used as the search value in the outer query View Answer

Answer: d

Explanation: A noncorrelated subquery is subquery that is independent of the outer query and it can executed on its own without relying on main outer query.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

- 5. Which statement is true regarding synonyms?
- a) Synonyms can be created for tables but not views
- b) Synonyms are used to reference only those tables that are owned by another user
- c) A public synonym and a private synonym can exist with the same name for the same table
- d) The DROP SYNONYM statement removes the synonym, and the status of the table on which the synonym has been created becomes invalid

View Answer

Answer: c

Explanation: A synonym is an alias or alternate name for a table, view, sequence, or other schema object. They are used mainly to make it easy for users to access database objects owned by other users.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

Which statement is true regarding the execution of the above commands?

- a) Statement 1 would not execute because the WITH GRANT option is missing
- b) Statement 1 would not execute because the IDENTIFIED BY clause is missing
- c) Statement 3 would not execute because role and system privileges cannot be granted together in a single GRANT statement
- d) Statement 2 would not execute because system privileges and object privileges cannot be granted together in a single GRANT command View Answer

Answer: d

Explanation: The GRANT statement is used to give privileges to a specific user or role, or to all users, to perform actions on database objects.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

What would be the outcome after executing the statements?

- a) SCOTT would be able to query the OE.ORDERS table
- b) SCOTT would not be able to query the OE.ORDERS table
- c) The REVOKE statement would remove the SELECT privilege from SCOTT as well as from the role R1
- d) The REVOKE statement would give an error because the SELECT privilege has been granted to the role R1

Answer: a

Explanation: The REVOKE statement is used to remove privileges from a specific user or role, or from all users, to perform actions on database objects.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

Which statement describes the consequences?

- a) No SQL statement would be rolled back
- b) Both the DELETE statements would be rolled back
- c) Only the second DELETE statement would be rolled back
- d) Both the DELETE statements and the UPDATE statement would be rolled back

View Answer

Answer: d

Explanation: The SAVEPOINT statement names and marks the current point in the processing of a transaction. With the ROLLBACK TO statement, savepoints undo parts of a transaction instead of the whole transaction.

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

Which statements are true regarding the above view?

- a) It allows you to insert details of all new staff into the EMPLOYEES table
- b) It allows you to delete the details of the existing sales staff from the EMPLOYEES table
- c) It allows you to update the job ids of the existing sales staff to any other job id in the EMPLOYEES table
- d) It allows you to insert the IDs, last

View Answer

Answer: d

Explanation: SQL Create view syntax:

```
CREATE VIEW view_name AS
SELECT column_name(s)
FROM TABLE_NAME
WHERE condition.
```

3. Evaluate the following statements:

```
CREATE TABLE digits
(id NUMBER(2),
description VARCHAR2(15));
INSERT INTO digits VALUES (1,'ONE);
UPDATE digits SET description ='TWO'WHERE id=1;
INSERT INTO digits VALUES (2 ,'TWO');
COMMIT;
DELETE FROM digits;
SELECT description FROM digits
VERSIONS BETWEEN TIMESTAMP MINVALUE AND MAXVALUE;
```

View Answer

Answer: c

Explanation: External tables are created using the SQL CREATE TABLE...ORGANIZATION EXTERNAL statement. When an external table is created, you specify type ,default directory, access parameters and location.

Database Questions and Answers – Concurrency in Index Structures
The method of access that uses key transformation is called as
a) Direct
b) Hash
c) Random
d) Sequential
View Answer
Answer: b
Explanation: Hash technique uses particular hash key value.
Explanation. Hash technique uses particular hash key value.
2 Wiles do not a decomposition Detector 2
2. Why do we need concurrency control on B+ trees? a) To remove the unwanted data
b) To easily add the index elements
c) To maintain accuracy of index
d) All of the mentioned
View Answer
VICW / HISWCI
Answer: c
Explanation: Indices do not have to be treated like other database structures.
3. How many techniques are available to control concurrency on B+ trees?
a) One
b) Three
c) Four
d) None of the mentioned
View Answer
Answer: d
Explanation: Two techniques are present.
4. In crabbing protocol locking a) Goes down the tree and back up
b) Goes up the tree and back down
c) Goes down the tree and releases
d) Goes up the tree and releases
View Answer
Answer: a
Explanation: It moves in a crab like manner.
5. The deadlock can be handled by
a) Removing the nodes that are deadlocked
b) Restarting the search after releasing the lock
c) Restarting the search without releasing the lock
d) Resuming the search
View Answer
Answer: b
Explanation: Crabbing protocol moves in a crab like manner.

6. In crabbing protocol, the lock obtained on the root node is in _____mode.

a) Sharedb) Exclusive

c) Read only
d) None of the mentioned
View Answer
Answer: a
Explanation: Crabbing protocol moves in a crab like manner down the index tree.
7. If needed to split a node or coalesce it with its siblings, or redistribute key values between siblings, the crabbing protocol locks the parent
the node inmode.
a) Shared
b) Exclusive
e) Read only
d) None of the mentioned
View Answer
Answer: b
Explanation: Crabbing protocol moves in a crab like manner down the index tree.
8. In crabbing protocol to inset or delete a key value the leaf node has to be locked in mode.
a) Shared
b) Exclusive
c) Read only
1) None of the mentioned
View Answer
Answer: b
Explanation: Crabbing protocol moves in a crab like manner down the index tree.
9. B-link tree requires a pointer to itssibling.
a) Upper
b) Lower
c) Right
H) Left
View Answer
Answer: c
Explanation: This pointer is required because a lookup that occurs while a node is being split may have to search not only that node but also t
node's right sibling.
10 Instant of the bine in the first in a term where we was a single and a second of the bine and a first below
10. Instead of locking index leaf nodes in a two-phase manner, some index concurrency-control schemes useon individual ke
values, allowing other key values to be inserted or deleted from the same leaf.
a) B+ tree locking
c) Link level locking
c) Key-value locking
f) Next value locking
View Answer
Answer: c
Explanation: Key-value locking thus provides increased concurrency.

Database Questions and Answers - Failure Classification

- 1. The recovery scheme must also provide
- a) High availability
- b) Low availability
- c) High reliability
- d) High durability

View Answer

Answer: a

Explanation: It must minimize the time for which the database is not usable after a failure.

- 2. Which one of the following is a failure to a system
- a) Boot crash
- b) Read failure
- c) Transaction failure
- d) All of the mentioned

View Answer

Answer: c

Explanation: Types of system failure are transaction failure, system crash and disk failure.

- 3. Which of the following belongs to transaction failure
- a) Read error
- b) Boot error
- c) Logical error
- d) All of the mentioned

View Answer

Answer: c

Explanation: Types of system transaction failure are logical and system error.

- 4. The system has entered an undesirable state (for example, deadlock), as a result of which a transaction cannot continue with its normal execution. This is
- a) Read error
- b) Boot error
- c) Logical error
- d) System error

View Answer

Answer: c

Explanation: The transaction, can be re-executed at a later time.

- 5. The transaction can no longer continue with its normal execution because of some internal condition, such as bad input, data not found, overflow, or resource limit exceeded. This is
- a) Read error
- b) Boot error
- c) Logical error
- d) System error

View Answer

Answer: c

Explanation: The transaction, can be re-executed at a later time.

6. The assumption that hardware errors and bugs in the software bring the system to a halt, but do not corrupt the nonvolatile storage contents,

is known as the

- a) Stop assumption
- b) Fail assumption
- c) Halt assumption
- d) Fail-stop assumption

View Answer

Answer: d

Explanation: Well-designed systems have numerous internal checks, at the hardware and the software level, that bring the system to a halt when there is an error. Hence, the fail-stop assumption is a reasonable one.

- 7. Which kind of failure loses its data in head crash or failure during a transfer operation.
- a) Transaction failure
- b) System crash
- c) Disk failure
- d) All of the mentioned

View Answer

Answer: c

Explanation: Copies of the data on other disks, or archival backups on tertiary media, such as DVD or tapes, are used to recover from the failure.

- 8. The failure occurred sufficiently early during the transfer that the destination block remains intact.
- a) Partial Failure
- b) Total failure
- c) Successful completion
- d) Data transfer failure

View Answer

Answer: a

Explanation: Copies of the data on other disks, or archival backups on tertiary media, such as DVD or tapes, are used to recover from the failure.

- 9. The database is partitioned into fixed-length storage units called
- a) Parts
- b) Blocks
- c) Reads
- d) Build

View Answer

Answer: b

Explanation: Blocks are the units of data transfer to and from disk, and may contain several data items.

- 10. Which of the following causes system to crash
- a) Bug in software
- b) Loss of volatile data
- c) Hardware malfunction
- d) All of the mentioned

View Answer

Answer: d

Explanation: The content of non-volatile storage remains intact, and is not corrupted.

Database Questions and Answers – Recovery	
1. The log is a sequence ofrecording all the update activities in the database.	
a) Log records	
b) Records	
c) Entries	
d) Redo View Answer	
VICW Allowed	
Answer: a	
Explanation: The most widely used structure for recording database modifications is the log.	
2. In thescheme, a transaction that wants to update the database first creates a complete copy of the database.	
a) Shadow copy	
b) Shadow Paging	
c) Update log records	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: If at any point the transaction has to be aborted, the system merely deletes the new copy. The old copy of the database has been affected.	not
a) Shadow copy b) Shadow Paging c) Update log records d) All of the mentioned View Answer Answer: b Explanation: Any page which is not updated by a transaction is not copied, but instead the new page table just stores a pointer to the originage.	ginal
4. The current copy of the database is identified by a pointer, calledwhich is stored on disk. a) Db-pointer	
b) Update log	
c) Update log records	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: Any page which is not updated by a transaction is not copied, but instead the new page table just stores a pointer to the original	gınal
page.	
5. If a transaction does not modify the database until it has committed, it is said to use thetechnique.	
a) Deferred-modification	
b) Late-modification	
c) Immediate-modification	
d) Undo	
View Answer	
Anguara	
Answer: a Explanation: Deferred modification has the overhead that transactions need to make local copies of all updated data items; further, if a	
Explanation. Determed modification has the overhead that transactions need to make local copies of all updated data items, futurely if a	

transaction reads a data item that it has upd	ted, it must read the value from its local copy.
6. If database modifications occur while the	transaction is still active, the transaction is said to use thetechnique.
a) Deferred-modification	
b) Late-modification	
c) Immediate-modification	
d) Undo	
View Answer	
Answer: c	
Explanation: We say a transaction modifies part of main memory do not count as data	the database if it performs an update on a disk buffer, or on the disk itself; updates to the private base modifications.
7 yaina a lag record sets t	e data item specified in the log record to the old value.
a) Deferred-modification	e data item specified in the log record to the old value.
b) Late-modification	
c) Immediate-modification	
d) Undo	
View Answer	
Answer: d	
Explanation: Undo brings the previous cont	nts.
	plays updates of all transactions by scanning the log forward from the last checkpoint.
a) Repeating	
b) Redo	
c) Replay	
d) Undo	
View Answer	
Answer: b	
Explanation: Undo brings the previous cont	nts.
1 000	'14/1711 a DD 4 1//0 /
9. The actions which are played in the order	while recording it is called history.
a) Repeating	while recording it is calledinstory.
b) Redo	
c) Replay	
d) Undo	
View Answer	
Answer: a	
Explanation: Undo brings the previous cont	nts.
	V1> is written to the log, where V1 is the value being restored to data item Xj during the rollback.
These log records are sometimes called	
a) Log records	
b) Records	
c) Compensation log records	
d) Compensation redo records	
View Answer	
Answer: c	

Database Questions and Answers – Buffer Management
In order to reduce the example of in retrieving the records from the storage group we way
. In order to reduce the overhead in retrieving the records from the storage space we use
) Logs) Log buffer
) Medieval space
) Lower records
View Answer
Answer: b
Explanation: The output to stable storage is in units of blocks.
. The order of log records in the stable storage as the order in which they were written to the log buffer.
) Must be exactly the same
Can be different
) Is opposite
) Can be partially same
View Answer
Answer: a
Explanation: As a result of log buffering, a log record may reside in only main memory (volatile storage) for a considerable time before it is
utput to stable storage.
Naswer: c
explanation: The WAL rule requires only that the undo information in the log has been output to stable storage, and it permits the redonformation to be written later.
. Writing the buffered log tois sometimes referred to as a log force.
) Memory
) Backup
) Redo memory
) Disk View Answer
New Allswer
Answer: d
Explanation: If there are insufficient log records to fill the block, all log records in main memory are combined into a partially full block and an
output to stable storage.
. Thepolicy, allows a transaction to commit even if it has modified some blocks that have not yet been written back to
isk.
) Force
) No-force
) Steal
) No-steal View Answer
TOW ALLSWED
Answer: b

No-force Steal No-force Steal		allows faster commit of transactions.
No-force No-force No-force No-force No-force No-force No-force No-force No-force No-force Direw Answer Answer		
No-force Steal No-force Steal		for frequently updated blocks.
Steal) No-steal) No-steal (Five Answer Answer: b Explanation: No-force policy allows faster commit of transactions. The	a) Force	
No-steal friew Answer timeswer: b explanation: No-force policy allows faster commit of transactions. Thepolicy, allows the system to write modified blocks to disk even if the transactions that made those modifications have not ll committed. Force No-force Steal No-force Steal No-steal frew Answer: Answer: c explanation: The no-steal policy does not work with transactions that perform a large number of updates. Locks on buffer blocks are unrelated to locks used for concurrency-control of transactions, and releasing them in a non-two-phase manner oes not have any implications on transaction serializability. This is Latches Darup Block None of the mentioned file Answer Answer: a explanation: These locks, and other similar locks that are held for a short duration. Thecontains a list of blocks that have been updated in the database buffer. Latches Darup Block None of the mentioned file Answer Darup Block None of the mentioned file Answer Contains a list of blocks that have been updated in the database buffer. Latches Darup Block None of the mentioned file Answer Conserved Control of the mentioned file Answer Conserved Control of the mentioned file Manswer Conserved Control of the mentioned file Manswer Conserved Control of the mentioned file Manswer Control of the transactions that made those that made those modified the manswer Control of the transactions and releasing them in a non-two-phase manner Co	,	
Asswer by Aplanation: No-force policy allows faster commit of transactions. Thepolicy, allows the system to write modified blocks to disk even if the transactions that made those modifications have not ll committed. Force No-force No-forc No-forc No-forc No-forc No-forc No-forc No-forc No-	*	
Explanation: No-force policy allows the system to write modified blocks to disk even if the transactions that made those modifications have not ill committed. Force No-force Steal No-force Steal No-steal No-s	View Answer	
Explanation: No-force policy allows the system to write modified blocks to disk even if the transactions that made those modifications have not ill committed. Force No-force Steal No-force Steal No-steal No-s	Answer h	
Il committed.) Force) Force) Nor-force) Steal) No-force) Steal) No-force) Steal) No-steal //www. Answer unswer: c explanation: The no-steal policy does not work with transactions that perform a large number of updates. Locks on buffer blocks are unrelated to locks used for concurrency-control of transactions, and releasing them in a non-two-phase manner ocs not have any implications on transaction serializability. This is) Latches) Swap Space) Diry Block) None of the mentioned //www. Answer a. explanation: These locks, and other similar locks that are held for a short duration. The contains a list of blocks that have been updated in the database buffer.) Latches) Swap Space) Diry Block) Diry Block) None of the mentioned //www. Answer unswer: c explanation: Dirty blocks are those that have been updated in memory, and the disk version is not up-to-date. O. The operating system reserves space on disk for storing virtual-memory pages that are not currently in main memory; this space is called) Latches) Swap Space) Dirty Block) None of the mentioned //www. Answer United the disk version is not up-to-date.		vallows faster commit of transactions.
Il committed.) Force) Force) Nor-force) Steal) No-force) Steal) No-force) Steal) No-steal //www. Answer unswer: c explanation: The no-steal policy does not work with transactions that perform a large number of updates. Locks on buffer blocks are unrelated to locks used for concurrency-control of transactions, and releasing them in a non-two-phase manner ocs not have any implications on transaction serializability. This is) Latches) Swap Space) Diry Block) None of the mentioned //www. Answer a. explanation: These locks, and other similar locks that are held for a short duration. The contains a list of blocks that have been updated in the database buffer.) Latches) Swap Space) Diry Block) Diry Block) None of the mentioned //www. Answer unswer: c explanation: Dirty blocks are those that have been updated in memory, and the disk version is not up-to-date. O. The operating system reserves space on disk for storing virtual-memory pages that are not currently in main memory; this space is called) Latches) Swap Space) Dirty Block) None of the mentioned //www. Answer United the disk version is not up-to-date.		
) Force) No-force) No-force) No-force) Steal) No-steal //iew Answer unswer: c explanation: The no-steal policy does not work with transactions that perform a large number of updates. Locks on buffer blocks are unrelated to locks used for concurrency-control of transactions, and releasing them in a non-two-phase manner oes not have any implications on transaction serializability. This is) Latches) Swap Space) Dirty Block) None of the mentioned //iew Answer unswer: a explanation: These locks, and other similar locks that are held for a short duration. The		, allows the system to write modified blocks to disk even if the transactions that made those modifications have
No-force Steal No-steal Now-steal Now-steal	all committed.	
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Database Questions and Answers - Failure with Nonvolatile Storage

- 1. The silicon chips used for data processing are called
- a) RAM chips
- b) ROM chips
- c) Micro processors
- d) PROM chips

View Answer

Answer: d

Explanation: PROM is Programmable Read Only Memory.

- 2. Which of the following is used for manufacturing chips?
- a) Control bus
- b) Control unit
- c) Parity unit
- d) Semiconductor

View Answer

Answer: d

Explanation: A semiconductor is a material which has electrical conductivity between that of a conductor such as copper and that of an insulator such as glass.

- 3. What was the name of the first commercially available microprocessor chip?
- a) Intel 308
- b) Intel 33
- c) Intel 4004
- d) Motorola 639

View Answer

Answer: c

Explanation: The Intel 4004 is a 4-bit central processing unit (CPU) released by Intel Corporation in 1971

- 4. The magnetic storage chip used to provide non-volatile direct access storage of data and that have no moving parts are known as
- a) Magnetic core memory
- b) Magnetic tape memory
- c) Magnetic disk memory
- d) Magnetic bubble memory

View Answer

Answer: d

 $Explanation: Bubble\ domain\ visualization\ by\ using\ CMOS-MagView.$

- 5. The ALU of a computer normally contains a number of high speed storage element called
- a) Semiconductor memory
- b) Registers
- c) Hard disks
- d) Magnetic disk

View Answer

Answer: b

Explanation: External control unit tells the ALU what operation to perform on that data, and then the ALU stores its result into an output register.

6. Which of the following is used only for data entry and storage, and never for processing?

a) Mouse		
b) Dumb terminal		
c) Micro computer		
d) Dedicated data entry system		
View Answer		
Answer: b Explanation: Dumb terminals are	those that can interpret a limited number of o	control codes.
7. Non-volatile storage needs to	have a where the loses in future	e can be recovered.
a) Dump		
b) Recover place		
c) Disk		
d) Redo plan		
View Answer		
Answer: a		
	s to dump the entire contents of the database	to stable storage periodically—say, once per day.
· _	·	
8. A dump of the database conte	nts is also referred to as an	dump.
a) Archival		
b) Fuzzy		
c) SQL		
d) All of the mentioned		
View Answer		
Answer: a	dumps and use them later to examine old sta	tos of the detahase
Explanation. We can arenive the	dumps and use them rater to examine old sta	nes of the database.
9. dump, writes out \$	OI DDI statements and SOI insert statements	ents to a file, which can then be reexecuted to re-create the
database.	QLDDL statements and SQL insert statement	ents to a file, which can then be reexecuted to re-create the
a) Archival		
b) Fuzzy	DELAZITE I	
c) SQL	IIL W/II LI/	
d) All of the mentioned	UEVVIIN	
View Answer		
Answer: c		
		nce of the database, or to a different version of the database
software, since the physical loca	tions and layout may be different in the oth	er database instance or database software version.
	have been developed that allow transactions	to be active while the dump is in progress.
a) Archival		
b) Fuzzy		
c) SQL		
d) All of the mentioned View Answer		
VICW Allowel		
Answer: b		
Explanation: The simple dump p	rocedure described here is costly and so fuzz	y dump is used.

Database Questions a	nd Answers – ARIES
1. ARIES uses a	to identify log records, and stores it in database pages.
a) Log sequence number	
b) Log number	
c) Lock number	
d) Sequence	
View Answer	
Answer: b	
	dentify which operations have been applied to a database page.
2. ARIES supports	operations, which are physical in that the affected page is physically identified, but can be logical within the
page.	
a) Physiological redo	
b) Physiological undo	
c) Logical redo	
d) Logical undo	
View Answer	
Answer: a Explanation: The deletion of a	a record from a page may result in many other records in the page being shifted, if a slotted page structure is used
Explanation: The deletion of t	Treesta noma page may result in many other records in the page being sinited, it a stotled page structure is used
	to minimize unnecessary redos during recovery.
a) Dirty page table	
b) Page table	
c) Dirty redo d) All of the mentioned	
View Answer	
view Allswer	
Answer: a	
Explanation: Dirty pages are t	those that have been updated in memory, and the disk version is not up-to-date.
	HIL WILLHAUWA V-S/S
4. scheme that i	records only information about dirty pages a <mark>nd associated information and</mark> does not eve <mark>n require</mark> of writing dirty
pages to disk.	, , , , , , , , , , , , , , , , , , ,
a) Fuzzy logic	
b) Checkpoints	
c) Fuzzy-checkpoint	
d) Logical checkpoint	
View Answer	
Answer: c	
Explanation: It flushes dirty pa	ages in the background, continuously, instead of writing them during checkpoints.
5 371	4 4 4 707 6 1 1 4 7 7 1 6
	ation occurs on a page, the operation stores the LSN of its log record in thefield of the page.
a) LSN	
b) ReadLSN	
c) PageLSN	
d) RedoLSN	
View Answer	
Answer: c	ains an identifier called the PageLSN.

a) Compensation log records
b) Read log records
c) Page log records
d) Redo log records
View Answer
Answer: a
Explanation: These serve the same purpose as the redo-only log records in our earlier recovery scheme.
7. Thecontains a list of pages that have been updated in the database buffer.
a) Dirty page table
b) Page table
c) Dirty redo
d) All of the mentioned
View Answer
Answer: a
Explanation: Dirty pages are those that have been updated in memory, and the disk version is not up-to-date.
8determines which transactions to undo, which pages were dirty at the time of the crash, and the LSN from which the redo
pass should start.
a) Analysis pass
b) Redo pass
c) Undo pass
d) None of the mentioned
View Answer
Answer: a
Explanation: The analysis pass finds the last complete checkpoint log record, and reads in the DirtyPageTable from this record.
9starts from a position determined during analysis, and performs a redo, repeating history, to bring the database to a state it was
in before the crash.
a) Analysis pass
b) Redo pass
c) Undo pass
d) None of the mentioned
View Answer
Answer: b
Explanation: The redo pass repeats history by replaying every action that is not already reflected in the page on disk.
10rolls back all transactions that were incomplete at the time of crash.
a) Analysis pass
b) Redo pass c) Undo pass
d) None of the mentioned
View Answer
Answer: c
Explanation: It performs a single backward scan of the log, undoing all transactions in undo-list.

Database Questions and Answers - Lock Release and Undo Operations

- 1. Which lock should be obtained to prevent a concurrent transaction from executing a conflicting read, insert or delete operation on the same key value.
- a) Higher-level lock
- b) Lower-level lock
- c) Read only lock
- d) Read write

View Answer

Answer: a

Explanation: Operations acquire lower-level locks while they execute, but release them when they complete; the corresponding transaction must however retain a higher-level lock in a two-phase manner to prevent concurrent transactions from executing conflicting actions.

- 2. Once the lower-level lock is released, the operation cannot be undone by using the old values of updated data items, and must instead be undone by executing a compensating operation; such an operation is called
- a) Logical operation
- b) Redo operation
- c) Logical undo operation
- d) Undo operation

View Answer

Answer: a

Explanation: It is important that the lower-level locks acquired during an operation are sufficient to perform a subsequent logical undo of the operation.

- 3. Which of the following is used for undo operations alone?
- a) Logical logging
- b) Physical logging
- c) Physical log records
- d) Physical logging and Physical log records

View Answer

Answer: a

Explanation: If the operation inserted an entry in a B+-tree, the undo information U would indicate that a deletion operation is to be performed, and would identify the B+-tree and what entry to delete from the tree. Such logging of information about operations is called logical logging.

- 4. Redo operations are performed exclusively using
- a) Logical logging
- b) Physical logging
- c) Physical log records
- d) Both Physical logging and Physical log records

View Answer

Answer: d

Explanation: Logging of old-value and new-value information is called physical logging.

- 5. To perform logical redo or undo, the database state on disk must be operation _____that is, it should not have partial effects of any operation.
- a) Persistent
- b) Resistant
- c) Consistent
- d) None of the mentioned

View Answer

Answer: c Explanation: Data structures such as B+ performed on an inconsistent data stru	trees would not be in a consistent state, and neither logical redo nor logical undo operations can be acture.	e
a) Idempotent	if executing it several times in a row gives the same result as executing it once.	
b) Changed		
c) Repetitive		
d) All of the above		
View Answer		
Answer: a		
	ng an entry into a B+-tree may not be idempotent, and the recovery algorithm must therefore make s	cure
that an operation that has already been		suic
7. Immediate database modification tech	minus week	
a) Both undo and redo	inique uses	
b) Undo but no redo		
c) Redo but no redo		
d) Neither undo nor redo		
View Answer		
View Aliswei		
Answer: a		
Explanation: Undo erases all the change	s and redo makes the deleted changes.	
8. Shadow paging has a) no redo b) no undo c) redo but no undo d) neither redo nor undo View Answer Answer: a Explanation: Undo erases all the change 9. For correct behaviour during recover a) Commutative b) Associative c) Idempotent d) Distributive View Answer Answer: c Explanation: Undo erases all the change	y, undo and redo operation must be	
10. Ifare not obtained in	n undo operation it will cause problem in undo-phase.	
a) Higher-level lock	. and operation is will end of protein in united plants.	
b) Lower-level lock		
c) Read only lock		
d) Read write		
View Answer		
	level locks while they execute, but release them when they complete; the corresponding transaction two-phase manner to prevent concurrent transactions from executing conflicting actions.	must

Database Questions and Answ	wers – Remote Backup Systems
The remote backup site is sometimes	s also called the
a) Primary Site	
b) Secondary Site	
c) Tertiary Site	
d) None of the mentioned	
View Answer	
Answer: b	
	ability by performing transaction processing at one site, called the primary site, and having a remote
backup site where all the data from the	e primary site are replicated.
	A
Remote backup system must be a) Synabranicad	with the primary site.
a) Synchronisedb) Separated	
c) Connected	
d) Detached but related	
View Answer	
Answer: a	
Explanation: We can achieve high available backup site where all the data from the	ability by performing transaction processing at one site, called the primary site, and having a remote
b) Entering the new records c) Sending all log records from primary d) Sending selected records from prima View Answer Answer: c Explanation: We can achieve high availa backup site where all the data from the	ary site to the remote backup site ability by performing transaction processing at one site, called the primary site, and having a remote
4. When thethe backup s	site takes over processing and becomes the primary.
-	
a) Secondary fails	
b) Backup recovers	
b) Backup recovers c) Primary fails	
b) Backup recoversc) Primary failsd) None of the mentioned	
b) Backup recoversc) Primary failsd) None of the mentioned	
b) Backup recovers	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c	γ site recovers, it can either play the role of remote backup, or take over the role of primary site again.
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary	y site recovers, it can either play the role of remote backup, or take over the role of primary site again. trol is for the old primary to receivefrom the old backup site.
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary 5. The simplest way of transferring conta) Undo logs	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary 5. The simplest way of transferring cont a) Undo logs b) Redo Logs	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary 5. The simplest way of transferring cont a) Undo logs b) Redo Logs c) Primary Logs	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary 5. The simplest way of transferring cont a) Undo logs b) Redo Logs c) Primary Logs d) All of the mentioned	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary 5. The simplest way of transferring cont a) Undo logs b) Redo Logs c) Primary Logs d) All of the mentioned View Answer	
b) Backup recovers c) Primary fails d) None of the mentioned View Answer Answer: c Explanation: When the original primary 5. The simplest way of transferring cont a) Undo logs b) Redo Logs c) Primary Logs d) All of the mentioned View Answer Answer: c	

	he remote backup can be reduced by
a) Flags	
b) Breakpoints	
c) Redo points	
d) Checkpoints View Answer	
Answer: d	
	t the remote backup grows large, recovery will take a long time. The remote backup site can periodically process the has received and can perform a checkpoint, so that earlier parts of the log can be deleted.
7. A	_configuration can make takeover by the backup site almost instantaneous.
a) Hot-spare	
b) Remote	
c) Direct	
d) Spare View Answer	
VICW AllSWCI	
Answer: d	
Explanation: In this conf	iguration, the remote backup site continually processes redo log records as they arrive, applying the updates locally.
	s as soon as its commit log record is written to stable storage at the primary site. This is
a) One Safe	
b) Two Safe	
c) Two-very Safe	
d) Very Safe View Answer	
VIEW THISWEI	
Answer: a	
Explanation: The proble	em with this scheme is that the updates of a committed transaction may not have made it to the backup site, when the
backup site takes over	processing.
	s as soon as its commit log record is written to stable storage at the primary and the backup site. This is
a) One Safe	IIIIP WII MARKAY 3/2/
b) Two Safe c) Two-very Safe	ODEWIIIMMAN O/ -
d) Very Safe	
View Answer	
VIEW I MISWEI	
Answer: c	
Explanation: The problem	m with this scheme is that transaction processing cannot proceed if either the primary or the backup site is down.
	s active, the transaction is allowed to commit as soon as its commit log record is written to stable storage at the primar
site. This is	
a) One Safe	
b) Two Safe	
c) Two-very Safe d) Very Safe	
View Answer	
Answer: b	
	ne provides better availability than does two-very-safe, while avoiding the problem of lost transactions faced by the one
safe scheme.	



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