

INDIAN SCHOOL SOHAR UNIT TEST (2019-20) INFORMATICS PRACTICES (265)

MAX. MARKS: 50 DURATION: 2 HOURS

CLASS: XII DATE: 16/05/2019

General Instructions:

1.

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i) A	ll questions are	compulse	ory.			
ii) Ar	swer the quest	ions after	carefully reading the text.			
Answer	the following qu	estions:				
i) W) What does the NO ACTION attribute do in foreign key attribute?					
ii) Br	Briefly explain ACID properties of a transaction.					
iii) Di) Differentiate between WHERE and HAVING clauses.					
iv) Di) Differentiate between ALTER and UPDATE commands.					
v) W) Write a short note on Integrity Constraints.					
vi) W	i) Write commands for enabling/disabling foreign key constraints.					
vii) W	i) What is a join? Briefly explain Cartesian Product.					
viii) Di	ii) Differentiate between Single Row and Aggregate functions.					
ix) W	x) What is MySQL? Write any three salient features of MySQL.					
x) W	x) What is an Event? Name any one event of a text field.					
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Find the output:						
	Name	Marks	Set autocommit=0;			
	Anond	05	(1)			

IVIAIKS	Set autocommu-0,
95	Insert into tbl values('Vikas', 58);
87	Savepoint A;
99	Update tbl set marks=marks+20 where name='Vikas';
	Delete from tbl where marks<80;
	Rollback to A;
	Insert into tbl values('Paul', 54);
	Select * from tbl;
	95 87 99

- 3. Find the values of x, y and z:
 - int x=1, y, z; y = x++ * 2; z = y>=3 ? ++y : y++;
- 4. Rewrite the following using Java expressions:
 - i) $\frac{\sqrt{a+b^2}}{2ab} 4a$ ii) $\log(a) + \frac{a^3 + b^3}{e^{2a}}$
- Help Mr. Sajal in identifying the wrong statement(s) with reference to UNION clause:

 a. Each SELECT statement within UNION must have the same number of columns
 b. The columns must also have similar data types

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- c. The columns in each SELECT statement must also be in the same order.
- d. By default, the UNION operator selects all the values.

	Train					
Column Name	Data Type	Size	Constraint			
TrainID	Integer		Primary Key			
TName	Varchar	30				
Source	Varcher	25				
Destination	Varchar	25				

Train

Train				Reservation			
TrainID	TName	Source	Destination	RefNo	TrainID	Passenger	JourneyDate
3402	Century Express	New Delhi	Mumbai	C001	3402	Jishan Mittal	2018-06-25
4023	Superfast Express	Kanyakumari	Chandigarh	S002	4023	Jessica Raj	2018-07-02
3424	Lucknow Mail	Lucknow	New Delhi	P001	9876	Paramjit Singh	2018-07-03
6542	Capital Express	Chennai	Kolkata	S003	3424	Gurjyot Singh	2018-07-03
9876	Punjab Mail	Patna	Ludhiana	C002	3402	Dia Mukharjee	2019-02-25
5400	Century Express	New Delhi	Kanpur	P002	9876	Meera Devi	2019-04-22

6. Write SQL commands for the following on the basis of tables given above:

	i)	Create table Train including its constraints.	2					
	ii)	Add a foreign key constraint named as 'FK'on TrainID of Reservation table.	1					
	iii)	Add a Not Null constraint on TName	1					
	iv)	Display the passengers travelling in June or July 2018	1					
	v)	Display the trains with more than 2 passengers	1					
	vi)	Add a new column Fare as int into Train table	1					
	vii)	List no, name of passenger and train along with total fare (total fare=fare+10% of fare)	1					
	viii)	Count the total number of trains to Mumbai	1					
	ix)	Count the total number of destination cities	1					
	x)	Change the trainID for passenger No P002 to 6542. Also set name to Meena Devi	1					
	xi)	List the passengers whose name starts with 'P' and have Singh as ending characters	1					
	xii)	Delete records of passengers whose journey date is before 2018	1					
	xiii)	Show a report as <passenger> is going to <source/> via <tname></tname></passenger>	1					
	xiv)	Find the average fare of trains from each source	1					
	xv)	To display Train detail which has no reservation yet	1					
	xvi)	Add a new record in train table: 6600, Jaipur, Mumbai	1					
	xvii)	Show the no and journey date of all passengers. If the date is not known, show 'Awaited'.	1					
7.	Find t	Find the errors (if any) in the following SQL commands and rewrite the corrected code:						
	i)	Select * from reservation where passenger <> NULL;	1					
	ii)	Select Char(65, 65.5, '65.5') from train;	1					
	iii)	Select Day('2019-01-01');	1					
8.	Find t	Find the output of following SQL commands:						
	i)	SELECT T.* from Train T, Reservation R where T.TrainId=R.TrainId AND Source LIKE	1					
		"%Delhi" OR Destination LIKE "%Delhi";						
	ii)	Select 6/3*9-4%3;	1					
	iii)	Select round(7589, -1), truncate(7589, -1)	1					
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