INDIAN SCHOOL SOHAR **UNIT TEST (2014-15)**

INFORMATICS PRACTICES (065)

Class: XII Marks: 50 **Time: 2 Hours** Date: 25 May, 2014

Instructions:

i) All questions are compulsory.

ii) Answer the questions after carefully reading the text.

- 1. Answer the following questions:
 - Explain the purpose of ROLLBACK and SAVEPOINT commands. i)
 - ii) Briefly explain ACID properties of a Transaction. 2
 - What are composite primary keys? Why are they required? iii)
 - 2 Explain the CASCADE and NO ACTION referencing actions with ON DELETE clause. iv)
 - 2
 - Differentiate between ON and USING clause of joining two tables. v)
 - Write short note on any two advantages of an RDBMS. vi)
 - vii) Name a: a) Date function that returns a number
 - b) String function that returns a number

Table:Coach

Field	DataType	Size	Constraint
ID	Int		Primary Key
CName	Varchar	20	Not Null
Age	Int		
Sports	Varchar	10	
DOA	Date		
Pay	Int		

ID	CName	Age	Sports	DOA	Pay
1	Pankaj	24	Karate	2010-10-10	4000
2	Shalini	21	Squash	2009-01-01	2000
3	Sanjay	22	Swimming	2009-12-12	3000
4	Sudha	25	Swimming	2008-01-07	1000
5	Govind	21	Karate	2008-10-05	3500

Table:Trainee

TNo	TName	TAge	ID	Fee
T001	Jugal	34	1	500
T002	Sharmila	31	1	200
T003	Sandeep	32	2	NULL
T004	Rakesh	42	3	200
T005	Shvam	50	4	NULL

- Write SQL commands for the following on the basis of tables given above:
 - i) Write command for creating the table Coach including its constraints.
 - ii) Count number of trainees with each coach.
 - iii) Find sum of pay of coaches of each sport.
 - Display No, Name and Fee of all trainees. If fee is not known, display "Free" in its place. iv)
 - Count number of trainees whose age is in the range 20-30. v)
 - Show minimum pay of each sport. vi)
 - List details of trainees whose coach was appointed in 2008. vii)
 - List the sport for which numer of coaches is more than 1. viii)
 - ix) Count number of sports offered to the trainees.
 - List details of coaches whose name does not start with 'S' or 'P'. x)
 - Show trainees whose age is same as that of 'Rakesh'. xi)
 - Write a query to display position of 'A' in Coach name. xii)
 - List the trainees paying fee less than the average fee of all trainees. xiii)
 - Add a new column Zone varchar(10) into Trainee table. xiv)
 - Increase fee of all swimming trainees by 50. xv)

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3.	Find i) ii) iii) iv) v)	the errors (if any) in the following SQL commands, rewrite the corrected code and its O/P: Select Sign(-2)/5-5*Sqrt(25)%30 as Result; Select Concat(Substr("Removing",-8,5),Right("SUPER",2)) as MyString; Select LCase("DAY", "Name") from dual; Select Trim(Both "S" from "TName") from Trainee; Select Avg(Fee) from Trainee;	1 1 1 1
4.	Tabl	output of query no. (h): le: tbl a) Insert into tbl values('D', 1000, 10); b) Savepoint s1; c) Delete from tbl where Rating=10; d) Update tbl set Amt=1200 where City='A'; e) Rollback to s1; f) Insert into tbl values('E', 2000, 8); g) Rollback; h) Select * from tbl;	2
5.	i) A ii) I	te queries to: Add a foreign key constraint FK on city of ChildCity table referring to city of MainCity table. Disable autocommit. Drop foreign key(FK) constraint from city column of ChildCity table.	1 1 1
6.	i)	Find errors from the following code segment and rewrite the corrected code underlining the corrections made:	2
	ii)	Write the output of following code: float i=5, j=8; int k; while(++i <j) (i+5.5-j);="" k="(int)" system.out.println(k);<="" td=""><td>2</td></j)>	2
	iii)	Rewrite the following code using 'switch' statement: if(a==10) b+=10; else if(a==20) b+=5; else b++; System.out.print(b);	2
	iv)	Find the value of 'c': int p=1, c; float q=2; double r=3; i) c=++p/q + r++%q++; ii) c=p++/q + ++r%++q;	2
	v)	How does the absence of 'default' clause affect 'switch' statement? - o O o -	2