

CBSE AISSCE 2016 Marking Scheme for Informatics Practices

(Sub Code: 065 Paper Code 90 Outside Delhi)

General Instructions:

- Marking scheme is the final document for all references with regard to evaluation and cannot be altered under any circumstance.
- The answers given in the marking scheme are SUGGESTIVE. Examiners are expected to award marks for all alternative correct Solutions/Answers conveying the similar meaning.
- All programming questions have to be answered with respect to Java Language only.
- In Java, ignore case sensitivity for identifiers (Variables / Functions / Structures / Class Names).
- In SQL related questions :
 - A. Both ways of text/character entries should be acceptable. For example: "AMAR" and 'amar' both are acceptable.
 - B. All date entries should be acceptable for example: 'YYYY-MM-DD', 'YY-MM-DD', 'DD-Mon-YY', "DD/MM/YY", 'DD/MM/YY', "MM/DD/YY", 'MM/DD/YY' and {MM/DD/YY} are correct.
 - C. Semicolon should be ignored for terminating the SQL statements.
 - D. Ignore case sensitivity for commands.
 - E. Ignore headers in output questions.

1	(a)	Vidya College has three departments that are to be connected into a network. Which of the following communication medium (out of the given options), should be used by the college for connecting their departments for very effective High Speed communication? . Coaxial Cable . Optical Fiber . Ethernet Cable Also name the type of network (out of PAN/LAN/WAN) formed.	2
	Ans	Optical fiber LAN	
		<i>(1 mark each for each correct answer)</i>	
	(b)	State reason why Star topology requires more cable length than Bus topology.	2
	Ans	As Star topology involves a central hub or switch to which all individual node(s) are connected with individual cable, therefore more cabling is required than Bus topology.	
		<i>(2 marks for correct answer)</i> <i>Note : Full 2 marks to be allotted if reason represented with the help of diagram</i>	
	(c)	Seema needs a network device that should regenerate the signal over the same network before the signal becomes too weak or corrupted. Amit needs a network device to connect two different networks together that work upon different networking models so that the two networks can communicate properly. Name the devices that should be used by Seema and Amit.	2
	Ans	Seema should use Repeater Amit should use Gateway	

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		(1 mark for each correct answer) Note: ½ mark for mentioning Router instead of Gateway	
	(d)	How is a domain name related to an IP address?	2
	Ans	Each domain name has a corresponding IP Address.	
		(2 marks for correct answer) Note : <ul style="list-style-type: none"> ● Full 2 marks to be allotted if reason represented with the help of example. ● Full 2 marks to be allotted if definitions of Domain name and IP address are stated. 	
	(e)	How is firewall useful in ensuring network security?	2
	Ans	A Firewall permits only that data to enter or leave a computer/Network for which permissions have been granted by the computer/network administrator.	
		(2 marks for correct answer)	
2	(a)	Identify the odd one out of the following Java statements. State reason for your choice i) for ii) do while iii) switch iv) while	1
	Ans	iii) switch switch is a selection statement but others are looping / iteration statements.	
		(½ mark for identifying) (½ mark for reason)	
	(b)	Write the purpose of parseInt() method.	1
	Ans	parseInt() converts a String value to Integer data type.	
		(1 mark for correct answer)	
	(c)	Identify invalid variable names out of the following. State reason if invalid. (i) for (ii) -salary (iii) salary12 (iv) product	1
	Ans	Invalid variable names : i) for and ii) -salary Reason : i) 'for' : is a keyword ii) '-salary' : variable name cannot start with special character	
		(½ mark each for each correct answer) Note : ½ mark to be awarded if reason not mentioned	
	(d)	What is the difference between statements (i) and (ii) (i) t = 2; (ii) if (t == 2) d = 3;	1

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	Ans	<p>In (i) variable 't' is being assigned the value 2 whereas in (ii) 't' is being checked for equality with 2 OR In (i) assignment operator is used and in (ii) relational operator '==' is used.</p>	
		(1 mark for mentioning correct difference)	
	(e)	Write HTML tags to do the following : (i) Inserting a horizontal line in a web page. (ii) Inserting a line break	2
	Ans	(i) <HR> or <hr> (ii) or 	
		(1 mark each for each correct answer) Note: Full 1 mark to be allotted if <p> or <P> tag is mentioned as answer of (ii) part.	
	(f)	What does 'XML' stand for? How is the purpose of HTML different from XML?	2
	Ans	XML stands for eXtensible Markup Language. HTML is used to create web pages / display data whereas XML is used to describe/store/transport data.	
		(1 mark for expanding XML) (1 mark for correct difference) Note : Full 1 mark to be allotted if only purpose of HTML is specified.	
	(g)	Rewrite the following code using if else if statement: <pre>switch(depcode) { case 1 : allowance = 4000; break; case 2 : allowance = 3200; break; default : allowance = 1000; }</pre>	2
	Ans	<pre>if (depcode == 1) allowance = 4000; else if (depcode == 2) allowance = 3200; else allowance =1000;</pre>	
		(2 marks for correct if-else-if construct and conditions) (1 mark for correct use of if -else-if construct) (1 mark for correct conditions)	

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3	(a)	What is the meaning of 'Open source' in the term 'Open Source Database Management System'?	1												
	Ans	Open source means that the software can be studied, copied, redistributed freely and even modified according to one's need without seeking any kind of permission. In order to modify such software the developers also provide the source code to the users.													
		<i>(1 mark for correct answer)</i>													
	(b)	In a table 'Employee', a column 'Occupation' contains many duplicate values. Which keyword would you use if you wish to list only different values?	1												
	Ans	The DISTINCT keyword can be used to return only distinct (different) values.													
		<i>(1 mark for correct answer)</i>													
	(c)	How is ALTER TABLE statement different from UPDATE statement?	1												
	Ans	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ALTER TABLE</td> <td style="width: 50%;">UPDATE</td> </tr> <tr> <td>To modify structure of a table</td> <td>To modify data in a table.</td> </tr> <tr> <td>DDL command</td> <td>DML command</td> </tr> </table>	ALTER TABLE	UPDATE	To modify structure of a table	To modify data in a table.	DDL command	DML command							
ALTER TABLE	UPDATE														
To modify structure of a table	To modify data in a table.														
DDL command	DML command														
		<i>(1 mark for any correct difference)</i> <i>Note: 1 mark to be awarded if explained using example</i>													
	(d)	Charvi wants to delete the records where the "FirstName" is "Rama" in the 'Emp' Table. She has entered the following SQL statement. An error is being displayed. Rewrite the correct statement. <code>DELETE 'Rama' FirstName FROM Emp;</code>	1												
	Ans	<code>DELETE FROM Emp WHERE FirstName = 'Rama';</code> <i>OR</i> <code>DELETE FROM Emp WHERE FirstName like 'Rama';</code>													
		<i>(1 mark for correct answer)</i>													
	e (i)	Name 2 Group (Aggregate) functions of SQL.	1												
	Ans	SUM(), MAX(), MIN(), AVG(), COUNT(), COUNT(*)													
		<i>(½ mark each for any 2 Group functions)</i> <i>Note : Function names without parentheses also to be accepted as correct answers.</i>													
	e(ii)	Consider the table: <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Table: Company</th> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">CompanyCode</td> <td style="border: 1px solid black; padding: 5px;">Donations</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">C101</td> <td style="border: 1px solid black; padding: 5px;">13000</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">C102</td> <td style="border: 1px solid black; padding: 5px;">NULL</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">C104</td> <td style="border: 1px solid black; padding: 5px;">7000</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px;">C105</td> <td style="border: 1px solid black; padding: 5px;">4000</td> </tr> </table> What output will be displayed by the following SQL statement: <code>SELECT AVG (Donations) FROM Company;</code>	Table: Company		CompanyCode	Donations	C101	13000	C102	NULL	C104	7000	C105	4000	1
Table: Company															
CompanyCode	Donations														
C101	13000														
C102	NULL														
C104	7000														
C105	4000														

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	Ans	8000																						
		<i>(1 mark for correct answer)</i>																						
	(f)	<p>Given below is the 'Emp' table:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ENO</th> <th>NAME</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Anita Khanna</td> </tr> <tr> <td>2</td> <td>Bishmeet Singh</td> </tr> </tbody> </table> <pre> SET AUTOCOMMIT = 0; INSERT INTO Emp VALUES (5, 'Farzia'); COMMIT; UPDATE Emp SET NAME = 'Farzziya' WHERE Eno= 5; SAVEPOINT A; INSERT INTO Emp VALUES (6, 'Richard'); SAVEPOINT B; INSERT INTO Emp VALUES (7, 'Rajyalakshmi'); SAVEPOINT C; ROLLBACK TO B; What will be the output of the following SQL query now: SELECT * FROM Emp; </pre>	ENO	NAME	1	Anita Khanna	2	Bishmeet Singh	2															
ENO	NAME																							
1	Anita Khanna																							
2	Bishmeet Singh																							
	Ans	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ENO</th> <th>NAME</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Anita Khanna</td> </tr> <tr> <td>2</td> <td>Bishmeet Singh</td> </tr> <tr> <td>5</td> <td>Farzziya</td> </tr> <tr> <td>6</td> <td>Richard</td> </tr> </tbody> </table>	ENO	NAME	1	Anita Khanna	2	Bishmeet Singh	5	Farzziya	6	Richard												
ENO	NAME																							
1	Anita Khanna																							
2	Bishmeet Singh																							
5	Farzziya																							
6	Richard																							
		<i>(½ mark for each correct line of output)</i>																						
	(g)	<p>Consider the table below.</p> <p style="text-align: center;">Table: Company</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>EMPID</th> <th>DEPARTMENT</th> <th>SALARY</th> </tr> </thead> <tbody> <tr> <td>E101</td> <td>PERSONNEL</td> <td>60000</td> </tr> <tr> <td>E102</td> <td>ACCOUNTS</td> <td>65000</td> </tr> <tr> <td>E103</td> <td>MARKETING</td> <td>40000</td> </tr> <tr> <td>E104</td> <td>PERSONNEL</td> <td>62000</td> </tr> <tr> <td>E105</td> <td>PERSONNEL</td> <td>50000</td> </tr> <tr> <td>E106</td> <td>MARKETING</td> <td>35000</td> </tr> </tbody> </table> <p>Identify error(s) in the following SQL statement. Rewrite the correct SQL statement.</p> <pre> SELECT Department, Salary FROM Company GROUP BY Department; </pre>	EMPID	DEPARTMENT	SALARY	E101	PERSONNEL	60000	E102	ACCOUNTS	65000	E103	MARKETING	40000	E104	PERSONNEL	62000	E105	PERSONNEL	50000	E106	MARKETING	35000	2
EMPID	DEPARTMENT	SALARY																						
E101	PERSONNEL	60000																						
E102	ACCOUNTS	65000																						
E103	MARKETING	40000																						
E104	PERSONNEL	62000																						
E105	PERSONNEL	50000																						
E106	MARKETING	35000																						

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	Ans	Some aggregate function like <code>AVG()</code> , <code>SUM()</code> , <code>MAX()</code> , <code>MIN()</code> etc. should be mentioned with <code>SELECT</code> . <code>SELECT DEPARTMENT, AVG(SALARY)</code> <code>FROM COMPANY</code> <code>GROUP BY DEPARTMENT;</code> OR Instead of <code>GROUP BY</code> , <code>ORDER BY</code> may be used. <code>SELECT DEPARTMENT, SALARY</code> <code>FROM COMPANY</code> <code>ORDER BY DEPARTMENT;</code> OR <code>GROUP BY DEPARTMENT</code> is not required <code>SELECT DEPARTMENT, SALARY</code> <code>FROM COMPANY;</code> OR No Error	
		<i>(2 marks for correct answer)</i> Note: Full 2 marks to be allotted if correct statement is written without identification of error.	
4	(a)	Identify programming languages out of the following: HTML,C++, JAVA,MySQL	1
	Ans	C++, Java	
		<i>(½ mark each for correct identification of programming languages)</i>	
	(b)	Write Java statement to extract selected item from a given listbox named "jList1."	1
	Ans	<code>String X =(String)jList1.getSelectedValue();</code> OR <code>String X=jList1.getSelectedValue().toString();</code>	
		<i>(1 mark for correct answer)</i> Note : ½ mark to be allotted if only <code>getSelectedValue()</code> is mentioned.	
	(c)	What will be displayed in <code>jTextField1</code> and <code>jTextField2</code> after the following code is executed: <code>int t;</code> <code>int x;</code> <code>x = 12;</code> <code>t = (3*x++)/3;</code> <code>jTextField1.setText(" "+t);</code> <code>jTextField2.setText(" "+x);</code>	1
	Ans	12 will be displayed in <code>jTextField1</code> 13 will be displayed in <code>jTextField2</code>	
		<i>(½ mark for each correct answer)</i>	
	(d)	Write the output that will be displayed in the textfields by the following Java code:	2

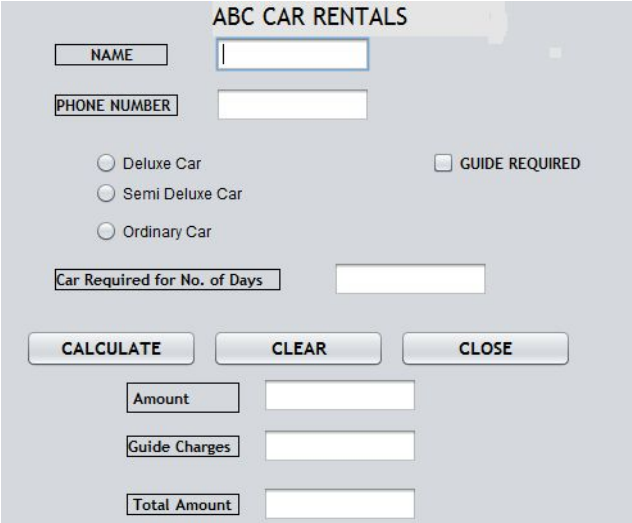
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		<pre>String x; String stream="Commerce"; jTextField1.setText((stream.length()+9)+""); x = stream.concat("Humanities"); jTextField2.setText(x); jTextField3.setText(" "+x.substring(2,5)); jTextField4.setText(stream.toLowerCase());</pre>	
	Ans	<pre>jTextField1 : 17 jTextField2 : CommerceHumanities jTextField3 : mme jTextField4 : commerce</pre>	
		<i>(½ mark for each correct line of output)</i>	
	(e)	<p>Write the value that will be stored in variable sum after execution of following code:</p> <pre>int sum = 0, m=4; for(int i=9;i>=6;i--) { if(i%3==0) sum = sum + i; else sum = sum - i; }</pre>	2
	Ans	sum = 0	
		<i>(2 marks for correct value of sum)</i>	
	(f)	<p>The following code has error(s). Rewrite the correct code underlining all the corrections made :</p> <pre>int a = 0; int b = 15; do ; a= a+3; b = b-3; while a <= b ;</pre>	2
	Ans	<pre>int a = 0; int b = 15; <u>do</u> { a= a+3; b = b-3; } <u>while (a <= b);</u></pre>	
		<p><i>(½ mark for correcting each error)</i> OR <i>(1 mark for only identifying any four errors - without making any corrections)</i></p>	

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<p>(g)</p>	<p>Ms. Sharma works as a programmer in “ABC Car Rental Company” where she has designed a software to compute charges to be paid by the client. A screenshot of the same is shown below:</p>  <p>A client can take any car out of Deluxe/ SemiDeluxe/ Ordinary for rent. A client can also opt for services of a guide. Charges vary depending on the type of car opted. Charges of services of Guide are extra. Help Ms. Sharma in writing the code to do the following:</p> <p>(i) After selecting appropriate Radio Button and checkbox (if required), when ‘CALCULATE’ button is clicked, Amount, Guide Charges and Total Amount should be calculated and displayed in the respective text fields</p> <table border="1" data-bbox="459 1274 1102 1498"> <thead> <tr> <th>Category of Car</th> <th>Amount(in Rs.)</th> </tr> </thead> <tbody> <tr> <td>Deluxe Car</td> <td>1000 per day</td> </tr> <tr> <td>Semi Deluxe Car</td> <td>800 per day</td> </tr> <tr> <td>Ordinary Car</td> <td>700 per day</td> </tr> </tbody> </table> <p>Amount is obtained by multiplying per day charges of Car with number of days for which the car is taken. If ‘Guide Required’ checkbox is selected, Guide charges per day are Rs.500.00. Guide Charges is calculated as :Car required for No. of days * 500; Total Amount = Amount + Guide Charges</p>	Category of Car	Amount(in Rs.)	Deluxe Car	1000 per day	Semi Deluxe Car	800 per day	Ordinary Car	700 per day	<p>2</p> <p>2</p>
Category of Car	Amount(in Rs.)									
Deluxe Car	1000 per day									
Semi Deluxe Car	800 per day									
Ordinary Car	700 per day									
<p>Ans</p>	<pre>// Calculation of Amount if (jRadioButton1.isSelected()) jTextField3.setText("" + 1000* Integer.parseInt(jTextField2.getText())); if (jRadioButton2.isSelected())</pre>									

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		<pre> jTextField3.setText("" + 800* Integer.parseInt(jTextField2.getText())); if (jRadioButton3.isSelected()) jTextField3.setText("" + 700* Integer.parseInt(jTextField2.getText())); //Calculation of Guide Charges if(jCheckBox1.isSelected()) jTextField4.setText("" + 500* Integer.parseInt(jTextField2.getText())); //Total Amount jTextField5.setText("" + (Integer.parseInt(jTextField3.getText())+ Integer.parseInt(jTextField4.getText()))); </pre>																			
		<p><i>(1 mark for correct use of if statement used for calculating amount)</i></p> <p><i>(1 mark for calculating and displaying Amount)</i></p> <p><i>(1 mark for calculating and displaying Guide Charges)</i></p> <p><i>(1 mark for calculating and displaying Total Amount)</i></p>																			
	(ii)	When 'CLEAR' button is clicked, all the textfields and checkboxes should be cleared.	1																		
	Ans	<pre> jTextField1.setText(""); jTextField2.setText(""); jTextField3.setText(""); jTextField4.setText(""); jTextField5.setText(""); jTextField6.setText(""); jCheckBox1.setSelected(false); </pre>																			
		<p><i>(½ mark for clearing any text field)</i></p> <p><i>(½ mark for clearing check box)</i></p> <p><i>Note : NULL in place of "" to be accepted for clearing text field.</i></p>																			
	(iii)	When 'CLOSE' button is clicked, the application should close.	1																		
		<pre> System.exit(0); </pre> <p><i>(1 mark for correct answer)</i></p>																			
5	(a)	<p>Srishti has created the following table with the name 'Veterinary'.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Column Name</th> <th>Constraint</th> </tr> </thead> <tbody> <tr> <td>AnimalId</td> <td>Primary Key</td> </tr> <tr> <td>VaccinationsDate</td> <td></td> </tr> <tr> <td>AnimalName</td> <td>Not Null</td> </tr> <tr> <td>OwnerName</td> <td></td> </tr> </tbody> </table> <p>One of the rows inserted is as follows :</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>AnimalId</th> <th>VaccinationDate</th> <th>AnimalName</th> <th>OwnerName</th> </tr> </thead> <tbody> <tr> <td>A101</td> <td>2015-02-12</td> <td>Sheru</td> <td>Amit Sharma</td> </tr> </tbody> </table>	Column Name	Constraint	AnimalId	Primary Key	VaccinationsDate		AnimalName	Not Null	OwnerName		AnimalId	VaccinationDate	AnimalName	OwnerName	A101	2015-02-12	Sheru	Amit Sharma	2
Column Name	Constraint																				
AnimalId	Primary Key																				
VaccinationsDate																					
AnimalName	Not Null																				
OwnerName																					
AnimalId	VaccinationDate	AnimalName	OwnerName																		
A101	2015-02-12	Sheru	Amit Sharma																		

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(i)	What are the data type of columns AnimalId and VaccinationDate in the table Veterinary ?																									
Ans	Data type of AnimalId : Varchar/char Data type of VaccinationDate : Date																									
	<i>(½ mark each for mentioning correct data type)</i> NOTE : Attribute name VaccinationDate, VaccinationsDate may be considered the same.																									
(ii)	Srishti is now trying to insert the following row <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">AnimalId</th> <th style="padding: 2px;">VaccinationDate</th> <th style="padding: 2px;">AnimalName</th> <th style="padding: 2px;">OwnerName</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">A102</td> <td style="padding: 2px;">2015-08-09</td> <td style="padding: 2px;">NULL</td> <td style="padding: 2px;">Abhimanyu Shah</td> </tr> </tbody> </table> Will she be able to successfully insert it? Give reason.	AnimalId	VaccinationDate	AnimalName	OwnerName	A102	2015-08-09	NULL	Abhimanyu Shah																	
AnimalId	VaccinationDate	AnimalName	OwnerName																							
A102	2015-08-09	NULL	Abhimanyu Shah																							
Ans	No Reason - Not Null Constraint applied on attribute AnimalName																									
	<i>(½ mark for 'NO')</i> <i>(½ mark for correct reason)</i>																									
(b)	Write the output of the following SQL queries:	2																								
(i)	SELECT MID (' LearningIsFun' , 2 , 4) ;																									
Ans	<u>MID (' LearningIsFun' , 2 , 4)</u> earn																									
	<i>(½ mark for correct output)</i>																									
(ii)	SELECT ROUND (76.384 , 2) ;																									
Ans	<u>ROUND (76.384 , 2)</u> 76.38																									
	<i>(½ mark for correct output)</i>																									
(iii)	SELECT INSTR (' INFORMATION FORM' , 'RM') ;																									
Ans	<u>INSTR (' INFORMATION FORM' , 'RM')</u> 5																									
	<i>(½ mark for correct output)</i>																									
(iv)	SELECT DAYOFYEAR (' 2015-01-30 ') ;																									
Ans	<u>DAYOFYEAR (' 2015-01-30 ')</u> 30																									
	<i>(½ mark for correct output)</i>																									
(c)	Table “Order” is shown below. Write commands in SQL for (i) to (iv) and output for (v) and (vi) Table: Order <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">OrderId</th> <th style="padding: 2px;">OrderDate</th> <th style="padding: 2px;">SalesPerson</th> <th style="padding: 2px;">OrderAmount</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">O101</td> <td style="padding: 2px;">2015-09-12</td> <td style="padding: 2px;">Ravi Kumar</td> <td style="padding: 2px;">34000</td> </tr> <tr> <td style="padding: 2px;">O102</td> <td style="padding: 2px;">2015-08-15</td> <td style="padding: 2px;">Rashmi Arora</td> <td style="padding: 2px;">50000</td> </tr> <tr> <td style="padding: 2px;">O103</td> <td style="padding: 2px;">2015-11-01</td> <td style="padding: 2px;">Ravi Kumar</td> <td style="padding: 2px;">55000</td> </tr> <tr> <td style="padding: 2px;">O104</td> <td style="padding: 2px;">2015-12-09</td> <td style="padding: 2px;">Manjeet Singh</td> <td style="padding: 2px;">60000</td> </tr> <tr> <td style="padding: 2px;">O105</td> <td style="padding: 2px;">2015-11-10</td> <td style="padding: 2px;">Rashmi Arora</td> <td style="padding: 2px;">50000</td> </tr> </tbody> </table>	OrderId	OrderDate	SalesPerson	OrderAmount	O101	2015-09-12	Ravi Kumar	34000	O102	2015-08-15	Rashmi Arora	50000	O103	2015-11-01	Ravi Kumar	55000	O104	2015-12-09	Manjeet Singh	60000	O105	2015-11-10	Rashmi Arora	50000	6
OrderId	OrderDate	SalesPerson	OrderAmount																							
O101	2015-09-12	Ravi Kumar	34000																							
O102	2015-08-15	Rashmi Arora	50000																							
O103	2015-11-01	Ravi Kumar	55000																							
O104	2015-12-09	Manjeet Singh	60000																							
O105	2015-11-10	Rashmi Arora	50000																							

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(i)	To display names of Salespersons (without duplicates).	1										
Ans	<pre>SELECT DISTINCT SalesPerson FROM Order;</pre>											
	<p><i>(½ mark for SELECT)</i> <i>(½ mark for DISTINCT)</i></p>											
(ii)	To list Orderid and respective Order amount in descending order of order amount.	1										
Ans	<pre>SELECT OrderId,OrderAmount FROM Order ORDER BY OrderAmount desc;</pre>											
	<p><i>(½ mark for SELECT)</i> <i>(½ mark for ORDER BY)</i></p>											
(iii)	To count the number of orders booked by Salespersons with names starting with 'R'	1										
Ans	<pre>SELECT COUNT(*) FROM Order WHERE SalesPerson LIKE "R%";</pre>											
	<p><i>(½ mark for SELECT)</i> <i>(½ mark for condition using WHERE)</i></p>											
(iv)	To list Order ids, order dates and order amounts that were booked after 1 st September 2015.	1										
Ans	<pre>SELECT OrderId,OrderDate,OrderAmount FROM Order WHERE OrderDate >'2015-09-01' ; OR SELECT OrderId,OrderDate,OrderAmount FROM Order WHERE OrderDate > 20150901;</pre>											
	<p><i>(½ mark for SELECT)</i> <i>(½ mark for condition using WHERE)</i></p>											
(v)	SELECT OrderId, OrderAmount FROM Order where OrderAmount between 50000 and 60000;	1										
Ans	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;"><u>OrderId</u></th> <th style="text-align: left; padding: 2px;"><u>OrderAmount</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">O102</td> <td style="padding: 2px;">50000</td> </tr> <tr> <td style="padding: 2px;">O103</td> <td style="padding: 2px;">55000</td> </tr> <tr> <td style="padding: 2px;">O104</td> <td style="padding: 2px;">60000</td> </tr> <tr> <td style="padding: 2px;">O105</td> <td style="padding: 2px;">50000</td> </tr> </tbody> </table>	<u>OrderId</u>	<u>OrderAmount</u>	O102	50000	O103	55000	O104	60000	O105	50000	
<u>OrderId</u>	<u>OrderAmount</u>											
O102	50000											
O103	55000											
O104	60000											
O105	50000											
	<p><i>(1 mark for correct output)</i></p>											
(vi)	SELECT concat (OrderId, SalesPerson) , length(SalesPerson) FROM Order;	1										

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	Ans	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><u>concat (OrderId, SalesPerson)</u></td> <td style="width: 40%;"><u>length (SalesPerson)</u></td> </tr> <tr> <td>O101Ravi Kumar</td> <td>10</td> </tr> <tr> <td>O102Rashmi Arora</td> <td>12</td> </tr> <tr> <td>O103Ravi Kumar</td> <td>10</td> </tr> <tr> <td>O104Manjeet Singh</td> <td>13</td> </tr> <tr> <td>O105Rashmi Arora</td> <td>12</td> </tr> </table>	<u>concat (OrderId, SalesPerson)</u>	<u>length (SalesPerson)</u>	O101Ravi Kumar	10	O102Rashmi Arora	12	O103Ravi Kumar	10	O104Manjeet Singh	13	O105Rashmi Arora	12				
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		(1 mark for correct output)																
		<i>Note : Full 6 marks is to be awarded for mentioning that 'Order' is a reserved/ keyword in SQL and cannot be used as a Table Name.</i>																
6	(a)	<p>Write SQL query to create a table 'Song' with the following structure:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Field</th> <th style="width: 33%;">Type</th> <th style="width: 33%;">Constraint</th> </tr> </thead> <tbody> <tr> <td>Songid</td> <td>Integer</td> <td>Primary key</td> </tr> <tr> <td>Title</td> <td>Varchar(50)</td> <td></td> </tr> <tr> <td>Duration</td> <td>Integer</td> <td></td> </tr> <tr> <td>ReleaseDate</td> <td>Date</td> <td></td> </tr> </tbody> </table>	Field	Type	Constraint	Songid	Integer	Primary key	Title	Varchar(50)		Duration	Integer		ReleaseDate	Date		2
Field	Type	Constraint																
Songid	Integer	Primary key																
Title	Varchar(50)																	
Duration	Integer																	
ReleaseDate	Date																	
	Ans	<pre>CREATE TABLE Song (SongId Integer PRIMARY KEY, Title Varchar(50), Duration Integer, ReleaseDate Date);</pre>																
		<p>(1/2 mark for CREATE TABLE) (1/2 mark for Primary Key constraint) (1 mark for Column Names with Data Types)</p>																
	(b)	<p>Consider the tables given below.</p> <p>Table: Party</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">PartyId</th> <th style="width: 45%;">Description</th> <th style="width: 30%;">CostPerPerson</th> </tr> </thead> <tbody> <tr> <td>P101</td> <td>Birthday</td> <td>400</td> </tr> <tr> <td>P102</td> <td>Wedding</td> <td>700</td> </tr> <tr> <td>P103</td> <td>Farewell</td> <td>350</td> </tr> <tr> <td>P104</td> <td>Engagement</td> <td>450</td> </tr> </tbody> </table>	PartyId	Description	CostPerPerson	P101	Birthday	400	P102	Wedding	700	P103	Farewell	350	P104	Engagement	450	2
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		Table: Client						
		ClientId	ClientName	Address	Phone	NoOfGuests	PartyId	
		C101	A.K. Antony	A-151, Adarsh Nagar	99101956	80	P101	
		C102	Fauzia Aria	K-5/52, Vikas Vihar	893466448	500	P102	
		C103	Rashi Khanna	D-6, Hakikat Nagar	981166568	50	P101	
		C104	S.K. Chandra	76-A/2, MG Colony, Adarsh Avenue.	65877756	100	P104	
	(i)	Name the Primary keys in both the tables						
	Ans	Primary key (Table : Party) - PartyId Primary key (Table : Client) - ClientId						
		(½ mark each for identifying Primary key)						
	(ii)	'P101' data is present twice in column 'PartyId' in 'Client' table - Is there any discrepancy? Give reason for your answer.						
	Ans	There is no discrepancy. PartyId is not the Primary key in table Client, hence repetition is permissible.						
	Ans	(1 mark for valid reason)						
	(c)	With reference to the above given tables (in Q6 b), Write commands in SQL for (i) and (ii) and output for (iii) given below:						6
	(i)	To display Client names of clients, their phone numbers, PartyId and party description who will have number of guests more than 50 for their parties.						2
	Ans	<pre> SELECT C.CLIENTNAME, C.PHONE, P.PARTYID, P.DESCRPTION FROM PARTY P, CLIENT C WHERE P.PARTYID = C.PARTYID AND C.NOOFGUESTS > 50; OR SELECT C.CLIENTNAME, C.PHONE, C.PARTYID, P.DESCRPTION FROM PARTY P, CLIENT C WHERE P.PARTYID = C.PARTYID AND C.NOOFGUESTS > 50; OR SELECT CLIENT.CLIENTNAME, CLIENT.PHONE, PARTY.PARTYID, PARTY.DESCRPTION FROM PARTY, CLIENT WHERE PARTY.PARTYID = CLIENT.PARTYID AND CLIENT.NOOFGUESTS > 50; </pre>						

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		<p>OR</p> <pre>SELECT CLIENT.CLIENTNAME, CLIENT.PHONE, CLIENT.PARTYID, PARTY.DESCRPTION FROM PARTY, CLIENT WHERE PARTY.PARTYID = CLIENT.PARTYID AND CLIENT.NOOFGUESTS > 50;</pre> <p>OR</p> <pre>SELECT CLIENTNAME, PHONE, PARTY.PARTYID, DESCRIPTION FROM PARTY, CLIENT WHERE PARTY.PARTYID = CLIENT.PARTYID AND NOOFGUESTS > 50;</pre> <p>OR</p> <pre>SELECT CLIENTNAME, PHONE, P.PARTYID, DESCRIPTION FROM PARTY P, CLIENT C WHERE P.PARTYID = C.PARTYID AND NOOFGUESTS > 50;</pre> <p><i>NOTE : && May be considered in place of AND</i></p>																					
		<p><i>(1/2 mark for SELECT)</i> <i>(1/2 mark for FROM)</i> <i>(1/2 mark for correct use of join)</i> <i>(1/2 mark for correct use of condition)</i></p>																					
	(ii)	<p>To display Client Ids, their addresses, number of guests of those clients who have 'Adarsh' anywhere in their addresses.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 12.5%;">ClientId</th> <th style="width: 12.5%;">ClientName</th> <th style="width: 12.5%;">Address</th> <th style="width: 12.5%;">Phone</th> <th style="width: 12.5%;">NoOfGuests</th> <th style="width: 12.5%;">PartyId</th> </tr> </table>	ClientId	ClientName	Address	Phone	NoOfGuests	PartyId	2														
ClientId	ClientName	Address	Phone	NoOfGuests	PartyId																		
	Ans	<pre>SELECT CLIENTID, ADDRESS, NOOFGUESTS FROM CLIENT WHERE ADDRESS LIKE '%Adarsh%' ;</pre>																					
		<p><i>(1 mark for SELECT)</i> <i>(1/2 mark for FROM)</i> <i>(1/2 mark for condition using WHERE)</i></p>																					
	(iii)	<pre>SELECT ClientId, ClientName, NoOfGuests, description, Costperperson, FROM Client, Party WHERE Client.Partyid= Party.Partyid AND NOofGuests BETWEEN 50 AND 100;</pre>	2																				
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		<p><i>(2 marks for correct output)</i> OR <i>(2 marks for mentioning Error)</i></p>																					

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7	(a)	How is an e-commerce business more cost effective than traditional business? Write two points.	2															
	Ans	<ul style="list-style-type: none"> ● No infrastructure to be set up for shop. ● Faster buying and selling procedure 																
		(1 mark each for any two valid points)																
	(b)	How is e-learning beneficial for old people? Write one point.	1															
	Ans	<ul style="list-style-type: none"> ● Learning from home ● Learning at own pace ● Learning any time ● Learning any topic 																
		(1 mark for any one valid point)																
	(c)	<p>Ms. Ariya is creating a form for PAN CARD application. Help her to choose most appropriate controls from ListBox, ComboBox, TextField, TextArea, RadioButton, CheckBox, Label and Command Button for the following entries.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.No.</th> <th style="width: 90%;">Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>To enter NAME</td> </tr> <tr> <td style="text-align: center;">2</td> <td>To enter MOBILE NUMBER</td> </tr> <tr> <td style="text-align: center;">3</td> <td>To allow user to choose one CATEGORY out of the categories : Company,Trust,Individual.</td> </tr> <tr> <td style="text-align: center;">4</td> <td>To enter NATURE OF BUSINESS/PROFESSION in the form of a paragraph</td> </tr> </tbody> </table>	S.No.	Function	1	To enter NAME	2	To enter MOBILE NUMBER	3	To allow user to choose one CATEGORY out of the categories : Company,Trust,Individual.	4	To enter NATURE OF BUSINESS/PROFESSION in the form of a paragraph	2					
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