

D.A.V CENTENARY PUBLIC SCHOOL
SECTOR – 12, HUDA, PANIPAT
HOLIDAY’S HOMEWORK (2017–18)
CLASS – XII
SUBJECT – INFORMATICS PRACTICES [065]

Note : Make a separate Report File for Holiday’s Homework.

Q1. Do the following questions in Serial order.

1) If a database “Employee” exists, which MySQL command helps you to start working in that database?

2) Sahil created a table in MySQL. Later on he found that there should have been another column in the table. Which command should he use to add another column to the table?

3) Pooja, a student of class XI, created a table “Book”. Price is a column of this table. To find the details of books whose prices have not been entered she wrote the following query :

Select * from Book where Price = NULL;

Help Pooja to run the query by removing the errors from the query and rewriting it.

4) Rama is not able to change a value in a column to NULL. What constraint did she specify when she created the table?

5) The LastName column of a table “Directory” is given below:

Last Name
Batra
Sehgal
Bhatia
Sharma
Mehta

Based on this information, find the output of the following queries:

(a) SELECT lastname FROM Directory WHERE lastname like „_a%“;

(b) SELECT lastname FROM Directory WHERE lastname not like „%a“;

6) A table “Stock” in a database has 5 columns and contains 17 records. What is the degree and cardinality of this table?

7) Which command is used in MySQL to make the changes in database permanent?

8) While creating table „Customer“ Simrita forgot to set the primary key for the table. Give the statement which she should write now to set the column „CustID“ as the primary key of the table?

9) What is the purpose of the following SQL query:

SELECT MAX(salary) FROM Emp;

10) Can a table have multiple primary keys? Can it have multiple foreign keys?

11) In a Student table, out of RollNumber, Name, Address which column can be set as Primary key and why?

12) The Item_No and Cost column of a table "ITEMS" are given below:

ITEM_NO	COST
101	5000
102	NULL
103	4000
104	6000
105	NULL

Based on this information, find output of the following queries:

- SELECT AVG(COST) FROM ITEMS;
- SELECT COST + 100 FROM ITEMS WHERE ITEM_NO > 103;

13) Ravi is working in the School database. he wants to see what are the tables in the School database. Which MySql command will he use to see the list of available tables.

14) Nidhi created a table called Supplier in MySql. She does not require the email_id column available in the Supplier table. Which command will she issue to remove the email_id from the Supplier table.

15) Which command is used in MySql to discard the changes in database?

16) What is the difference between "%" and "_" wild card characters with reference to LIKE clause of MySQL?

17) Name a function of MySQL used to give the first occurrence of a string2 in string1

18) Consider the following table named "EXAM" with details of marks. Write command of MySQL for (i) to (iv) and output for (v) to (vii)

Table : EXAM

Adno	SName	Percentage	Csection	Stream
R001	Sushant	90.2	12A	Science
R002	Vaidyanath	80.5	12B	Humanities
R003	Miara	68.9	12B	Science
R004	Niara	96.0	12A	Commerce
R005	Shinjini	88.9	12D	Commerce

- To display all information of the students of humanities in descending order of percentage.
- To display Adno, Name, Percentage and Stream of those students whose name starts with M alphabet.
- To add another column Bus_Fees with datatype and size as Decimal(8,2).
- To increase percentage by 2% of all the Humanities students.
- SELECT COUNT(*) FROM EXAM;
- SELECT Sname, Percentage FROM EXAM WHERE name LIKE "N%";
- SELECT ROUND(Percentage,0) FROM EXAM WHERE Adno is "R005".

19) (a) Write MySQL command to create the table „Toyz" with the following structure and constraint:

Table : TOYZ

COLUMN_NAME	DATATYPE(size)	CONSTRAINT
Toy_no	Int(10)	Primary Key
Toy_name	Varchar(20)	
Type	Char(10)	
Price	Decimal(8,2)	
Colour	Varchar(15)	

(b) In a Database – SAMS and VENDOR are two tables with the following information. Write MySQL queries for (i) to (iii), based on tables SAMS and VENDOR :

Table : SAMS

ICode	IName	Price	Colour	VCode
S001	Refrigerator	20000	Blue	P01
S002	Mobile Phone	45000	Black	P02
S003	LCD	60000	Silver	P03
S004	Washing Machine	12500	Smoke	P01
S005	Air conditioner	16000	White	P03

Table : VENDOR

VCode	VName
P01	Satish
P02	Manoj
P03	Subodh
P04	Jacob

- (i) To display ICode, IName and VName of all the vendors, who manufacture "Refrigerator".
- (ii) To display IName, ICode, VName and Price of all the products whose price is more than 20000.
- (iii) To display vendor names and names of all items manufactured by vendor whose code is "P03".

20) With reference to SAMS table, which column should be set as the Primary Key? Which column is the foreign key? Give reasons.

21) Differentiate between GROUP BY and ORDER BY clause.

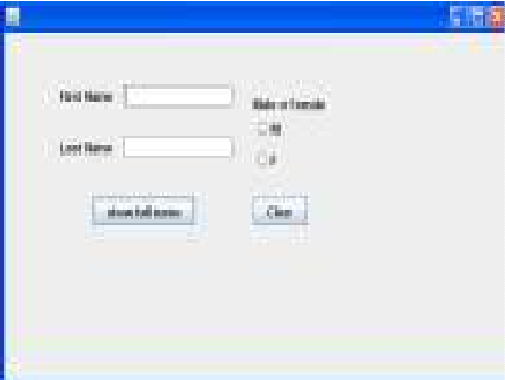

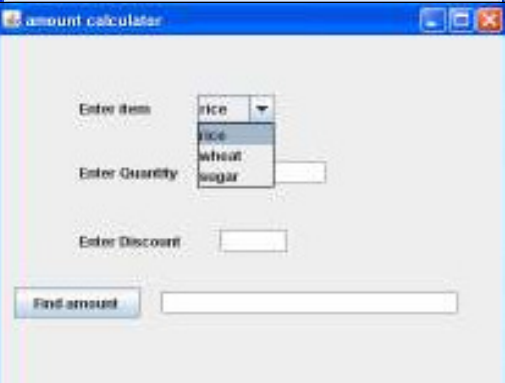

22) Write the output of the following SQL queries:

(i) SELECT INSTR(„twelve“,“lv”); (ii)SELECT ROUND(98.987,2);

23) What is the difference between UPDATE and ALTER TABLE?

24) Distinguish between PRIMARY key AND UNIQUE key.

25) Differentiate between DELETE and DROP TABLE command.

1	Write a java application to enter the first and last name in different textfields with an appropriate sex, so that the display is in a dialog box as “Your full name is Mr./Ms. R. Saxena”. The clear button should clear everything. (use substring(), concat() functions).	
2	Write a java application to calculate the simple interest/ Compound interest as selected where principal, rate and time should be entered by the user. Use round() to shorten the calculated interest to 2 significant digits after decimal point.	
3	Write a java application to calculate the Amount by the formula (price * quantity * 0.80) if discount is 20%. Price of the items will be fixed as rice – 80, wheat – 20, sugar – 32.5).	
4	Write a java application to calculate the total amount when item(s) are selected from the list box.	

26) Do the following: