

INTERNATIONAL INDIAN SCHOOL, RIYADH

GRADE – XII MULTIMEDIA & WEB TECHNOLOGY

FIRST TERM WORK SHEET

Database concepts

1. Define the term foreign key with the help of an example.
2. What do you understand by the term primary key?
3. What is a tuple?
4. Define alternate key with the help of an example..
5. Define Candidate key.
6. What is the relation between a candidate key and a primary key with respect to a database ?
7. What is DBMS? Give an example of a DBMS.
8. What is a Database? What is a DBMS?
9. What do you understand by the degree of a table?
10. Explain the concept of foreign key with the help of an example.
11. Explain the terms tuple and cardinality with the help of an example.

CH 2 – Starting MS – Access

1. What is the difference between Text and Memo data types used in MS- Access?
 2. What is the difference between the Number and Auto Number data types in Access?
 3. Name any two types of relationships that can be set between two tables in MS-Access.
 4. Differentiate between the design view and datasheet view in Access.
 5. Identify the most suitable data type for the following data items:
 - i) Age of a person.
 - ii) An address
 6. Name the following :
 - i. An attribute which is capable of becoming a primary key.
 - ii. The MS access view in which we can add define the fields , the data types and their input masks.
 - iii. The extension of an Access database file.
 - iv. The view in which we can add, edit and view records in MS-access.
 - v. A data type which can be used to automatically store monetary values with appropriate sign, commas and decimals.
 - vi. A part of the Microsoft office suite that is used to create and manage databases.
1. Study the following data and answer the questions given below :

Table: Pancard.mdb

| Permanent Account Number | Name | Father Name | Date Of Birth |
|--------------------------|----------------------|------------------|---------------|
| Atbpe3452g | Er. Ramesh Gupta | Sh. Keshav Gupta | 22-9-1989 |
| Sdfg324erg | Dr. Mahipal Rawat | Sh. Magesh Rawat | 9-10-1965 |
| Dfghj234ty | Tr. Leelawati George | Sh. S.K.George | 8-9-1945 |

Table: Moneytransaction .mdb

| Permanent account number | Debit | Credit | balance |
|--------------------------|-------|--------|---------|
| Sdfg324erg | 45000 | | 145000 |
| Atbpe3452g | | 676543 | 32678 |
| Sdfg324erg | | 65432 | 79568 |

- i. Suggest the data types that should be used for each of the fields in the pancard table .
- ii. Write the relationship between “pancard” and “moneytransaction” table.
- iii. Name the field that can act as a primary key in “pancard” table and name the foreign key of “moneytransaction” table.
2. Consider the following tables BANK and CUSTOMER. Study the following data and answer the question given below :

Table BANK

| AccNo | Name | DB_Amt | CR_Amt | Balance | Tr_Date |
|-------|---------|--------|---------|---------|-----------|
| 3035 | Abhinav | 10000 | 30000 | 200000 | 27-12-'07 |
| 6542 | Karan | 5000 | 45000 | 500000 | 29-12-'07 |
| 2222 | Parteek | 7000 | 145000 | 1400000 | 22-12-'07 |
| 3571 | Sanjoli | 8000 | 2459700 | 2451700 | 30-12-'07 |

Table : CUSTOMER

| AccNo | Address | PhoneNo | Photograph | Sign_Sample |
|-------|---------|-----------|------------------|-------------------|
| 3571 | Sec-17 | 987652222 | C:\image\san.jpg | C:\image\ssig.jpg |
| 3035 | Sec-16 | 986753333 | C:\image\bel.jpg | C:\image\bsig.jpg |
| 2222 | Sec-34 | 987898765 | D:\g.jpg | D:\gsig.jpg |
| 3035 | Sec-17 | 986753334 | C:\image\cel.jpg | C:\image\csig.jpg |

- (i) Suggest data types that should be used for each of the fields in the table Bank
- (ii) What type of relationship exists between the table BANK and the table CUSTOMER?
- (iii) Name the field that can be set as a foreign key in the table CUSTOMER.

3. Study the following data and answer the questions given below:

Table: Video

| Title | Vid_No | Actor | Price |
|--------------|--------|-------------|--------|
| Troy | 1001 | Sunil Nehra | 315.00 |
| Men In Black | 1002 | Neha | 125.70 |
| Speed | 1003 | Shuhita | 220.10 |
| Spider Man | 1004 | Pawan | 480.00 |

Table: Issue

| Member_No | Issue_Date | Return_Date | Vid_No |
|-----------|------------|-------------|--------|
| P123 | 07/12/2009 | 07/14/2009 | 1001 |
| T102 | 09/30/2009 | 10/01/2009 | 1002 |
| T096 | 10/08/2009 | 10/10/2009 | 1002 |
| P103 | 10/03/2009 | 10/05/2009 | 1001 |
| T089 | 09/30/2009 | 09/04/2009 | 1004 |
| P037 | 04/05/2009 | 04/05/2009 | 1003 |

- 1) Suggest data types for each of the fields in the table Video.
 - 2) Name the fields, which can act as the primary keys for the table Video and the table Issue.
 - 3) What type of relationship exists between table Video and Issue.
4. Study the following data and answer the questions given below :

Table: Patient

| Name | P_no | Date_Admm | Doc_no |
|-------|-------|------------|--------|
| Mohan | P_101 | 21/03/2006 | 301 |
| Priya | P_204 | 03/04/2006 | 134 |
| Suraj | P_375 | 15/01/2006 | 204 |
| Komal | P_424 | 24/06/2006 | 134 |

Table: Doctor

| Doc_no | Doc_Name | Speciality |
|--------|-------------|-------------|
| 134 | A.K. Sharma | Surgery |
| 204 | R. Khurana | Dentist |
| 301 | S. Shyam | Neurology |
| 280 | P.John | Dermatology |

- i. Name the field, which can act as the primary key for the table **Patient** and the table **Doctor** respectively.
- ii. Name the field, which can act as the foreign key for the table **Patient**.
- iii. What type of relationship exists between the table **Patient** and the table **Doctor** ?

5. Study the following data and answer the questions given below :

Table : RETAILINVOICE.mdb

| S.L | Material Code | Article Name | Brand | Colour | Size | Qty | MRP |
|-----|---------------|--------------|---------|--------|------|-----|--------|
| 1 | 0730 | 1004-01red | Gliders | White | 37 | 1 | 999.00 |
| 2 | 3300 | Catie | Footfun | Pink | 30 | 1 | 499.00 |

Buyerdetail.mdb

| Material Code | Customer Name | Address | Date | Photograph |
|---------------|-----------------|---------|------------|------------|
| 0730 | Srishti Dwivedi | Sec 21B | 12-01-2011 | S12.jpg |
| 3300 | Shivi Dwivedi | Sec 21B | 12-01-2011 | Sh12.jpg |

- i. Suggest the data types that should be used for each of the fields in the buyerdetail table .
- ii. Write the relationship between “retailinvoice” and “buyerdetail” table.
- iii. Name the field that can act as a primary key in “retailinvoice” table and name the foreign key of “buyerdetail” table

6. Study the following data and answer the question given below :

Table STUDENT

| Admno | Name | DateofBirth |
|-------|-----------|-------------|
| 079 | Santosh | 27-12-1981 |
| 6875 | Ashish | 29-02-1998 |
| 5444 | Augestine | 22-07-1972 |

| | | |
|------|-----------|------------|
| 9873 | Sanjay B. | 30-09-1984 |
|------|-----------|------------|

Table: SUBJECT

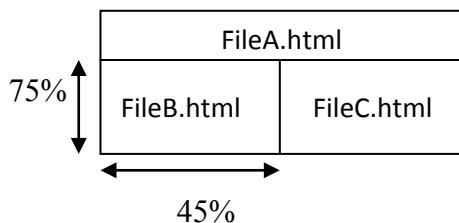
| Subject_code | No_of_students | Subject_Name | Teacher |
|--------------|----------------|------------------------|-------------|
| 067 | 54 | Multimedia & Web Tech. | Mrs. Ashu |
| 048 | 20 | Physical Education | Mr. Imran |
| 301 | 120 | English | Ms. M. Bhal |
| 042 | 73 | Physics | Mr. Vikas |
| 030 | 80 | Economics | Mr. Suji |

(i) Suggest data types that should be used for each of the fields in the table STUDENT.

(ii) What type of relationship exists between the table STUDENT and the table SUBJECT.

Working with HTML

1. Differentiate between HIDDEN and PASSWORD interface elements of a form.
2. Explain with the help of an example how ‘intrafile’ linking is done.
3. Write the HTML code to create a framed web page in the following format.



4. What is the difference between the submit button and reset button of a HTML form?
5. Name any two structural tags of HTML.
6. Name the three structural tags of HTML page and explain the usage of any one of them.
7. Specify the tag and attributes to send a form to the e-mail address mymail @ emailaccount.com.
8. What is the difference between the <FRAME> and <FRAMESET> tags?
9. Specify the tag and attributes to create a TextArea with 5 rows and 20 columns.
10. Specify the tag and attributes used to create a textbox which can accept maximum of 20 characters with a default value “Enter Name”.
11. Write the name of tag and attributes used to have 3 pixels thick horizontal line centralized across 50% of the window.
12. Write the difference between cellpadding and cellspacing attributes.
13. What is the <DL> tag used for?
14. Name the tag and attribute used to set a check box as selected by default.
15. How is
 tag different from <P> tag?
16. What is the use of TYPE attribute in a list?
17. How do we support non frame browsers?
18. What is the use of ACTION attribute of the <FORM> tag?
19. Differentiate between <FRAME> and <FRAMESET> tags.
20. Differentiate between Text and Password interface elements of a form.
21. What is the use of START attribute in a list?
22. What is the use of “maxlength” attribute with <input>tag in HTML?

23. Write the code to make the text “Hello World” italicized and to strike it through.
24. Which tag is used to display quotes in HTML?
25. Which attribute is used to set a radio button or a check box to remain selected by default?
26. What is the difference between the AND <BASEFONT> tags?
27. Differentiate between <HR> and
 tags.

REVIEW OF VBSCRIPT

1. Differentiate between
 - i) fixed length array and dynamic array with example.
 - ii) local and global scope of a variable in VBScript
 - iii) a subroutine and a function with the help of an example.
 - iv) IF...THEN...ELSE and SELECT... CASE statements with the help of an example.
 - v) For next loop and for each next loop with the help of an example.
2. What do you understand by the term EVENT? What is the blur event of an element called?
3. Name the built in function which can be used for the following
 - i) To convert an expression to an integer. – Cint
 - ii) To convert a character to uppercase. – Ucase
 - iii) To convert an expression into a string. – CStr
 - iv) To convert a character to lowercase. – Lcase
 - v) To return a number rounded to specified decimal places. – Round
 - vi) To check if string1 occurs within string2 and returns the starting position of string2 in string1. – INSTR
4. Name the events to be used in the following situations:
 - i) To display a message every time the viewer closes a web page. – OnLoad
 - ii) To deactivate a particular textbox in a form. – OnBlur
 - iii) To perform an action when a button is clicked. – OnClick
 - iv) To perform an action as soon as the contents of a text box change. – OnChange
 - v) To perform the action when the button gain focus. – OnFocus
5. Define the term event. Differentiate between the OnLoad and OnUnload events.
6. What is event handling? Name the event that occurs when the mouse cursor is brought over an element on a web page.