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Submitted to

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***BS-Software Engineering 4th-E***

Title: LAB Report 3&4

DBMS

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National University of Modern Languages

DBMS (MySQL)

# Lab Report 3 & 4

**Question # 01**

**Database Schema for a Video Library scenario.**

**Customer(cust\_no:number,cust\_name:varchar2,cass\_no:number)**

**Membership(mem\_no:number,cust\_no:number)**

**Cassette(cass\_no:number,cass\_name:varchar2,Language:varchar2)**

**Iss\_rec(iss\_no:numbe,iss\_date:date,mem\_no:number,cass\_no:number)**

**A)**

**Create the table with the appropriate integrity constraints at table level.**

CREATE TABLE Customer( cust\_no number(10), cust\_name varchar2(10), cass\_no number(10), CONSTRAINT emp\_cust\_no PRIMARY KEY (CUST\_NO));

CREATE TABLE Membership( mem\_no number(10), cust\_no number(10), CONSTRAINT emp\_mem\_no PRIMARY KEY (mem\_no), CONSTRAINT for\_cust\_no FOREIGN KEY (cust\_no) REFERENCES Customer(cust\_no));

CREATE TABLE Cassette( cass\_no number(10), cass\_name varchar2(10), language varchar2(10), CONSTRAINT emp\_cass\_no PRIMARY KEY (cass-no));

CREATE TABLE Iss\_rec( iss\_no number(10), iss\_date date(), mem\_no number(10), cass\_no number(10), CONSTRAINT emp\_iss\_no PRIMARY KEY (iss\_no), CONSTRAINT emp\_mem\_no FOREIGN KEY (mem\_no) REFERENCES Membership(mem\_no), CONSTRAINT emp\_cass\_no FOREIGN KEY (cass\_no) REFERENCES Cassette(cass\_no));

**B)**

**Rename any table name.**

RENAME Membership TO Members\_record;

**C)**

**Insert the below records in each if the tables.**

INSERT INTO CUSTOMER VALUES (39, 'Ali', 201);

INSERT INTO CUSTOMER VALUES (34, 'Hamza', 202);

INSERT INTO CUSTOMER VALUES (18, 'Hina', 203);

INSERT INTO CUSTOMER VALUES (8, 'Hijab', 204);

INSERT INTO CUSTOMER VALUES (24, 'Asma', 205);

INSERT INTO CUSTOMER VALUES (10, 'Faiza', 206);

INSERT INTO CUSTOMER VALUES (20, 'Hassan', 207);

INSERT INTO CUSTOMER VALUES (40, 'Adeel', 208);

INSERT INTO CUSTOMER VALUES (50, 'Adeeba', 209);

INSERT INTO CUSTOMER VALUES (60, 'Hadia', 210);

National University of Modern Languages (NUML). INSERT INTO Membership VALUES (39, 101);

INSERT INTO Membership VALUES (34, 111); INSERT INTO Membership VALUES (18, 112);

INSERT INTO Membership VALUES (8, 113);

INSERT INTO Membership VALUES (24, 114);

INSERT INTO Membership VALUES (10, 115);

INSERT INTO Membership VALUES (20, 116);

INSERT INTO Membership VALUES (40, 117);

INSERT INTO Membership VALUES (50, 118);

INSERT INTO Membership VALUES (60, 119);

INSERT INTO Cassette VALUES (201, 'The lion of king', 'English');

INSERT INTO Cassette VALUES (202, 'Lord of Rings', 'English');

INSERT INTO Cassette VALUES (203, 'Walk to remember', 'Persian');

INSERT INTO Cassette VALUES (204, 'The Legend', 'Persian');

INSERT INTO Cassette VALUES (205, 'The Prince', 'German');

INSERT INTO Cassette VALUES (206, 'The Town', 'German');

INSERT INTO Cassette VALUES (210, 'The Home', 'Chinese');

INSERT INTO Iss\_rec VALUES (201, 101, 301, '07-Jan-2013');

INSERT INTO Iss\_rec VALUES (202, 111, 302, '07-Jan-2013');

INSERT INTO Iss\_rec VALUES (203, 112, 303, '10-Jan-2013');

INSERT INTO Iss\_rec VALUES (204, 113, 304, '10-Jan-2013');

INSERT INTO Iss\_rec VALUES (205, 114, 305, '10-Jan-2013');

INSERT INTO Iss\_rec VALUES (206, 115, 306, '07-Jan-2013');

INSERT INTO Iss\_rec VALUES (201, 116, 307, '01-Jan-2013');

INSERT INTO Iss\_rec VALUES (202, 117, 308, '01-Jan-2013');

INSERT INTO Iss\_rec VALUES (203, 118, 309, '07-Jan-2013');

INSERT INTO Iss\_rec VALUES (210, 119, 310, '07-Jan-2013');

**D)**

**Change the name of Cust\_no 40 to Fahad.**

UPDATE CUSTOMER SET cust\_name = 'Fahad' WHERE cust\_no = 40;

**E)**

**Write a query to display the Cust\_no,Cust\_name, whose Cust\_no is greater than Hijab.Exculde Hijab.**

SELECT cust\_no, cust\_name FROM CUSTOMER WHERE cust\_no > 8;

**F)**

**Display the Cust\_name of all Customers wher the second letter of the Cust\_name is a.**

SELECT cust\_name FROM CUSTOMER WHERE cust\_name LIKE '\_a%';

**G)**

**Write a query that display the customer rocords with the first letter Capitalized and all other letters lowercase and the length of the Cust\_name, Give each column an appropriate label. Sort the result by the Customer names.**

SELECT INITCAP (cust\_name) AS customer\_name, LENGTH(cust\_name) "Length" FROM CUSTOMER ORDER BY cust\_name;

**H)**

**Create a query to display the Cust\_name concatenated with the cust\_no, separated by comma and space. Name the column heading CUSTOMER\_DETAILS respectively. (Customer table)**

SELECT cust\_name||', '||cust\_no "Customer\_Details" FROM CUSTOMER;

**I)**

**Display the Cass\_name of all Cassettess where the language of the Cass\_name is English.**

SELECT cass\_name FROM Cassette WHERE language = 'English';

**Given tables:**



