

### NATIONAL UNIVERSITY OF MODEN LANGUAGES, ISLAMABAD

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**Department of Management Sciences**

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| **Name:** | **Ahmad Junaid** |
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| **Subject:** | **Database Systems** |
| **Submitted to:** | **Ms. Humaira Batool** |
| **Class:** | **BSCS 4th (Afternoon)** |

**Q1.**  **Create the tables with the appropriate integrity constraints at table level ?.**

**Answer:**

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));

Q2. **Rename any table name.**

**Answer**

RENAME Customer TO CUSTOMER\_REC;

Q3**. Insert the below records in each of the tables ?.**

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

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

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

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

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

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

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

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

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

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

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');

**Q4. Change the name of Cust\_no 40 to Fahad**

**Answer:**

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

**Q5. Write a query to display the Cust\_no,Cust\_name, whose Cust\_no is greater than Hijab.Exclude Hijab.**

**Answer**:

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

**Q6. Display the Cust\_name of all Customers where the second letter of the Cust\_name is a.**

**Answer:**

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

**Q7.** **Write a query that display the Customer records 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.**

**Answer:**

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

**Q8. 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. (Customers table).**

**Answer:**

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

**Q9.** **Display the Cass\_name of all Cassettess where the language of the Cass\_name is English?.**

**Answer:**

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