

Database Management Systems (DB212)

Tutorial 9

1. Consider the following table structure:

MEMBER

Column name	Data Type	Length
MEMID	NUMBER	5
NAME	CHARACTER	15
REGISTERDATE	DATE	
EXPIRYDATE	DATE	

VIDEO

Column name	Data Type	Length
VIDEO CODE	CHARACTER	5
DESCRIPTION	CHARACTER	15
BALANCE QTY	NUMBER	5

SALES

Column name	Data Type	Length
VIDEO CODE	CHARACTER	5
MEMID	NUMBER	5
SALEDATE	DATE	
PRICE	NUMBER	8,2
QUANTITY	NUMBER	5

- A. An index is created to provide rapid access to table-based data.
- Write an SQL statement to create an index called MEMID_IDX on the MEMBER table for the MEMID column.
CREATE INDEX MEMID_IDX ON MEMBER (MEMID);
 - Provide the command to remove the index MEMID_IDX.
DROP INDEX MEMID_IDX;

- B. Write an SQL statement to add the following record to the MEMBER table.

MEMID: 20002

NAME: CALLY

REGISTERDATE: 1st October 2003

EXPIRYDATE: One year after the register date

INSERT INTO MEMBER

VALUES (20002, 'CALLY', '01-OCT-03', '01-OCT-03' +365);

A correct alternative answer is:

INSERT INTO MEMBER (MEMID, NAME, REGISTERDATE, EXPIRYDATE)

VALUES (20002, 'CALLY', '01-OCT-03', '01-OCT-03' +365);

- C. Write an SQL statement to display the total number of sales for each video code.

SELECT VIDEO_CODE, COUNT(*)

FROM SALES

GROUP BY VIDEO_CODE;

- D. Write an SQL statement to list the video codes and balance quantity for all videos that have a balance quantity less than 5. Sort the output so that those with the least balance quantity are listed first.

SELECT VIDEO_CODE, BALANCE_QTY

FROM VIDEO

WHERE BALANCE_QTY <5

ORDER BY BALANCE_QTY;