

# BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

## DATABASE SYSTEMS

### TUTORIAL SHEET-1 SOLUTIONS

1.     SELECT CUSTOMERID, ITEM, PRICE  
       FROM ITEMS\_ORDERED  
       WHERE CUSTOMERID=10449;
2.     SELECT \* FROM ITEMS\_ORDERED  
       WHERE ITEM = 'TENT';
3.     SELECT CUSTOMERID, ORDER\_DATE, ITEM  
       FROM ITEMS\_ORDERED  
       WHERE ITEM LIKE 'S%';
4.     SELECT DISTINCT ITEM  
       FROM ITEMS\_ORDERED;
5.     SELECT MAX(PRICE)  
       FROM ITEMS\_ORDERED;
6.     SELECT AVG(PRICE)  
       FROM ITEMS\_ORDERED  
       WHERE ORDER\_DATE LIKE '%DEC%';
7.     SELECT COUNT(\*)  
       FROM ITEMS\_ORDERED;
8.     SELECT MIN(PRICE) FROM ITEMS\_ORDERED WHERE ITEM = 'TENT';
9.     SELECT STATE, COUNT(STATE)  
       FROM CUSTOMERS  
       GROUP BY STATE;
10.    SELECT ITEM, MAX(PRICE), MIN(PRICE)  
       FROM ITEMS\_ORDERED  
       GROUP BY ITEM;
11.    SELECT CUSTOMERID, COUNT(CUSTOMERID), SUM(PRICE)  
       FROM ITEMS\_ORDERED  
       GROUP BY CUSTOMERID;
12.    SELECT STATE, COUNT(STATE)  
       FROM CUSTOMERS  
       GROUP BY STATE  
       HAVING COUNT(STATE) > 1;

13.     SELECT ITEM, MAX(PRICE), MIN(PRICE)  
       FROM ITEMS\_ORDERED  
       GROUP BY ITEM  
       HAVING MAX(PRICE) > 190.00;
14.     SELECT CUSTOMERID, COUNT(CUSTOMERID), SUM(PRICE)  
       FROM ITEMS\_ORDERED  
       GROUP BY CUSTOMERID  
       HAVING COUNT(CUSTOMERID) > 1;
15.     SELECT LASTNAME, FIRSTNAME, CITY  
       FROM CUSTOMERS  
       ORDER BY LASTNAME;
16.     SELECT LASTNAME, FIRSTNAME, CITY  
       FROM CUSTOMERS  
       ORDER BY LASTNAME DESC;
17.     SELECT ITEM, PRICE  
       FROM ITEMS\_ORDERED  
       WHERE PRICE > 10.00  
       ORDER BY PRICE ASC;
18.     SELECT CUSTOMERID, ORDER\_DATE, ITEM  
       FROM ITEMS\_ORDERED  
       WHERE (ITEM <> 'SNOW SHOES') AND (ITEM <> 'EAR MUFFS');
19.     SELECT ITEM, PRICE  
       FROM ITEMS\_ORDERED  
       WHERE (ITEM LIKE 'S%') OR (ITEM LIKE 'P%') OR (ITEM LIKE 'F%');
20.     SELECT ORDER\_DATE, ITEM, PRICE  
       FROM ITEMS\_ORDERED  
       WHERE PRICE BETWEEN 10.00 AND 80.00;
21.     SELECT FIRSTNAME, CITY, STATE  
       FROM CUSTOMERS  
       WHERE STATE IN ('ARIZONA', 'WASHINGTON', 'OKLAHOMA', 'COLORADO',  
                      'HAWAII');
22.     SELECT ITEM, SUM(PRICE)/SUM(QUANTITY)  
       FROM ITEMS\_ORDERED  
       GROUP BY ITEM;
23.     SELECT CUSTOMERS.CUSTOMERID, CUSTOMERS.FIRSTNAME,  
       CUSTOMERS.LASTNAME,

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ITEMS_ORDERED.ORDER_DATE, ITEMS_ORDERED.ITEM, ITEMS_ORDERED.PRICE
FROM CUSTOMERS, ITEMS_ORDERED
WHERE CUSTOMERS.CUSTOMERID = ITEMS_ORDERED.CUSTOMERID;
24. SELECT CUSTOMERS.CUSTOMERID, CUSTOMERS.FIRSTNAME, CUSTOMERS.STATE,
ITEMS_ORDERED.ITEM
FROM CUSTOMERS, ITEMS_ORDERED
WHERE CUSTOMERS.CUSTOMERID = ITEMS_ORDERED.CUSTOMERID
ORDER BY CUSTOMERS.STATE DESC;
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