e) Give a count of how many products have been bought by each customer.

select custid,count(itemid) from sale17 group by custid;

|  |  |  |
| --- | --- | --- |
| **CUSTID** | | **COUNT(ITEMID)** |
| 1003 | | 2 |
| 1001 | | 1 |
| 1002 | | 1 |
| 1005 | | 1 |
| 4 rows returned in 0.03 seconds  f) Give a list of products bought by a customer having cust\_id as 5 | |

select i.itemname from item17 i,sale17 s where i.itemid=s.itemid and custid=1005;

|  |
| --- |
| **ITEMNAME** |
| pen |
| 1 rows returned in 0.00 seconds  g) List the item details which are sold as oftoday |  |

select i.itemname from item17 i, sale17 s where i.itemid=s.itemid and s.billdate='08-jan-2019';

|  |
| --- |
| **ITEMNAME** |
| pencil |
| pen |
| book |
| note |
| Pen |

select distinct i.itemname from item17 i, sale17 s where i.itemid=s.itemid and s.billdate='08-jan-2019';

|  |
| --- |
| **ITEMNAME** |
| note |
| book |
| pencil |
| pen |
| 4 rows returned in 0.00 seconds |

PART2

create table student17 (stud\_no number(5)primary key,stud\_name varchar(20));

desc student17;

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Object Type](javascript:popupFieldHelp('22156222310565561','1109827695331478','Close')) | **TABLE** | [Object](javascript:popupFieldHelp('22174606305655533','1109827695331478','Close')) | **STUDENT17** |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** |
| [STUDENT17](javascript:ret_Column('CSEA17.STUDENT17');) | [STUD\_NO](javascript:ret_Column('STUD_NO');) | Number | - | 5 | 0 | 1 | - | - | - |
|  | [STUD\_NAME](javascript:ret_Column('STUD_NAME');) | Varchar2 | 20 | - | - | - | nullable | - | - |
| |  |  |  |  | | --- | --- | --- | --- | |  |  | 1 - 2 |  | | | | | | | | | | |

Table created.

create table book17 (book\_no number(5)primary key,book\_name varchar(20),author varchar(10));

desc book17;

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Object Type](javascript:popupFieldHelp('22156222310565561','1109827695331478','Close')) | **TABLE** | [Object](javascript:popupFieldHelp('22174606305655533','1109827695331478','Close')) | **BOOK17** |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** |
| [BOOK17](javascript:ret_Column('CSEA17.BOOK17');) | [BOOK\_NO](javascript:ret_Column('BOOK_NO');) | Number | - | 5 | 0 | 1 | - | - | - |
|  | [BOOK\_NAME](javascript:ret_Column('BOOK_NAME');) | Varchar2 | 20 | - | - | - | nullable | - | - |
|  | [AUTHOR](javascript:ret_Column('AUTHOR');) | Varchar2 | 10 | - | - | - | nullable | - | - |
| |  |  |  |  | | --- | --- | --- | --- | |  |  | 1 - 3 |  | | | | | | | | | | |

Table created.

0.03 seconds

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

create table membership17 (mem\_no number(5) primary key,stud\_no number(5) references student17(stud\_no));

desc membership17;

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Object Type](javascript:popupFieldHelp('22156222310565561','1109827695331478','Close')) | **TABLE** | [Object](javascript:popupFieldHelp('22174606305655533','1109827695331478','Close')) | **MEMBERSHIP17** |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** |
| [MEMBERSHIP17](javascript:ret_Column('CSEA17.MEMBERSHIP17');) | [MEM\_NO](javascript:ret_Column('MEM_NO');) | Number | - | 5 | 0 | 1 | - | - | - |
|  | [STUD\_NO](javascript:ret_Column('STUD_NO');) | Number | - | 5 | 0 | - | nullable | - | - |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | 1 - 2 |  |  | | | | | | | | | | |

Table created.

0.02 seconds

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

create table iss\_rec17(iss\_no number(5)primary key,iss\_date date,mem\_no number(5)references membership17 (mem\_no),book\_no number(5)references book17(book\_no));

Table created.

0.03 seconds

desc iss\_rec17;

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Object Type](javascript:popupFieldHelp('22156222310565561','1109827695331478','Close')) | **TABLE** | [Object](javascript:popupFieldHelp('22174606305655533','1109827695331478','Close')) | **ISS\_REC17** |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** |
| [ISS\_REC17](javascript:ret_Column('CSEA17.ISS_REC17');) | [ISS\_NO](javascript:ret_Column('ISS_NO');) | Number | - | 5 | 0 | 1 | - | - | - |
|  | [ISS\_DATE](javascript:ret_Column('ISS_DATE');) | Date | 7 | - | - | - | nullable | - | - |
|  | [MEM\_NO](javascript:ret_Column('MEM_NO');) | Number | - | 5 | 0 | - | nullable | - | - |
|  | [BOOK\_NO](javascript:ret_Column('BOOK_NO');) | Number | - | 5 | 0 | - | nullable | - | - |
| |  |  |  |  | | --- | --- | --- | --- | |  |  | 1 - 4 |  | | | | | | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

insert into student17 values (101,'arun');

insert into student17 values (102,'banu');

insert into student17 values (103,'calibraj');

insert into student17 values (104,'dhanush');

insert into student17 values (105,'eliza');

select \* from student17;

|  |  |  |
| --- | --- | --- |
| **STUD\_NO** | | **STUD\_NAME** |
| 101 | | arun |
| 102 | | banu |
| 103 | | calibraj |
| 104 | | dhanush |
| 105 | | eliza |
| 5 rows returned in 0.00 seconds | |

insert into membership17 values(10,101);

insert into membership17 values(11,102);

insert into membership17 values(12,103);

insert into membership17 values(13,104);

insert into membership17 values(14,105);

select \* from membership17;

|  |  |  |
| --- | --- | --- |
| **MEM\_NO** | | **STUD\_NO** |
| 10 | | 101 |
| 11 | | 102 |
| 12 | | 103 |
| 13 | | 104 |
| 14 | | 105 |
| 5 rows returned in 0.00 seconds | |  |

insert into book17 values(1,'dbms book','vkj');

insert into book17 values(2,'maths book','veerarajan');

insert into book17 values(3,'computer c book','silver');

insert into book17 values(4,'ethics book','anantha');

insert into book17 values(5,'daa book','jeya');

select \* from book17;

|  |  |  |  |
| --- | --- | --- | --- |
| **BOOK\_NO** | | **BOOK\_NAME** | **AUTHOR** |
| 1 | | dbms book | vkj |
| 2 | | maths book | veerarajan |
| 3 | | computer c book | silver |
| 4 | | ethics book | anantha |
| 5 | | daa book | jeya |
| 5 rows returned in 0.00 seconds | |  |

insert into iss\_rec17 values(1001,'08-jan-2019',10,2);

insert into iss\_rec17 values(1002,'09-jan-2019',12,4);

insert into iss\_rec17 values(1003,'10-jan-2019',11,1);

insert into iss\_rec17 values(1004,'11-jan-2019',12,2);

insert into iss\_rec17 values(1005,'11-jan-2019',14,5);

select \* from iss\_rec17;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ISS\_NO** | | **ISS\_DATE** | **MEM\_NO** | | **BOOK\_NO** | |
| 1001 | | 08-JAN-19 | 10 | | 2 | |
| 1002 | | 09-JAN-19 | 12 | | 4 | |
| 1003 | | 10-JAN-19 | 11 | | 1 | |
| 1004 | | 11-JAN-19 | 12 | | 2 | |
| 1005 | | 11-JAN-19 | 14 | | 5 | |
| 5 rows returned in 0.00 seconds | | |  | |