create table student123(usn number(10) primary key, name varchar2(20),dob date,branch varchar2(20),mark1 number(10),mark2 number(10),mark3 number(10),total number(10),gpa number(10));

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | [Object Type](javascript:popupFieldHelp('22156222310565561','1407714000873033','Close')) | **TABLE** | [Object](javascript:popupFieldHelp('22174606305655533','1407714000873033','Close')) | **STUDENT123** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Table** | | | | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** | | [STUDENT123](javascript:ret_Column('SYSTEM.STUDENT123');) | | | | [USN](javascript:ret_Column('USN');) | Number | - | 10 | 0 | 1 | - | - | - | |  | | | | [NAME](javascript:ret_Column('NAME');) | Varchar2 | 20 | - | - | - | nullable | - | - | |  | | | | [DOB](javascript:ret_Column('DOB');) | Date | 7 | - | - | - | nullable | - | - | |  | | | | [BRANCH](javascript:ret_Column('BRANCH');) | Varchar2 | 20 | - | - | - | nullable | - | - | |  | | | | [MARK1](javascript:ret_Column('MARK1');) | Number | - | 10 | 0 | - | nullable | - | - | |  | | | | [MARK2](javascript:ret_Column('MARK2');) | Number | - | 10 | 0 | - | nullable | - | - | |  | | | | [MARK3](javascript:ret_Column('MARK3');) | Number | - | 10 | 0 | - | nullable | - | - | |  | | | | [TOTAL](javascript:ret_Column('TOTAL');) | Number | - | 10 | 0 | - | nullable | - | - | |  | | | | [GPA](javascript:ret_Column('GPA');) | Number | - | 10 | 0 | - | nullable | - | - | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | 1 - 9 |  |  | | | | | | | | | | | | | | |  |  |  |  | |

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

39

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(101,'aravind','26/jan/2003','bca','90','85','99');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(102,'bhuvan','26/mar/2002','mca','5','78','89');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(103,'shankar','24/feb/2000','mba','90','91','93');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(104,'sachin','12/sep/2000','ma','96','94','97');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(105,'utkarsh','12/sep/2003','mcom','96','95','92');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(106,'yash','23/may/1990','mcom','90','93','89');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(107,'surya','11/nov/1990','msc','76','99','89');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(108,'amar','11/nov/2012','msc','96','79','90');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(109,'oscar','28/jun/2001','mcom','76','89','72');

insert into student123(usn,name,dob,branch,mark1,mark2,mark3)values(1001,'bear','2/sep/2005','msc','86','89','72');

select \* from student123;

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USN** | | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** |
| 101 | | aravind | 26-JAN-03 | bca | 90 | 85 | 99 | - | - |
| 102 | | bhuvan | 26-MAR-02 | mca | 5 | 78 | 89 | - | - |
| 103 | | shankar | 24-FEB-00 | mba | 90 | 91 | 93 | - | - |
| 104 | | sachin | 12-SEP-00 | ma | 96 | 94 | 97 | - | - |
| 105 | | utkarsh | 12-SEP-03 | mcom | 96 | 95 | 92 | - | - |
| 106 | | yash | 23-MAY-90 | mcom | 90 | 93 | 89 | - | - |
| 107 | | surya | 11-NOV-90 | msc | 76 | 99 | 89 | - | - |
| 108 | | amar | 11-NOV-12 | msc | 96 | 79 | 90 | - | - |
| 109 | | oscar | 28-JUN-01 | mcom | 76 | 89 | 72 | - | - |
| 1001 | | bear | 02-SEP-05 | msc | 86 | 89 | 72 | - | - |
|  | | |  | [CSV Export](http://127.0.0.1:8080/apex/f?p=4500:1204:1407714000873033::::P1204_BROWSER_LANG:en-us) |

update student123 set total=mark1+mark2+mark3;

update student123 set gpa=(total/300)\*10;

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USN** | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** |
| 101 | aravind | 26-JAN-03 | bca | 90 | 85 | 99 | 274 | 9 |
| 102 | bhuvan | 26-MAR-02 | mca | 5 | 78 | 89 | 172 | 6 |
| 103 | shankar | 24-FEB-00 | mba | 90 | 91 | 93 | 274 | 9 |
| 104 | sachin | 12-SEP-00 | ma | 96 | 94 | 97 | 287 | 10 |
| 105 | utkarsh | 12-SEP-03 | mcom | 96 | 95 | 92 | 283 | 9 |
| 106 | yash | 23-MAY-90 | mcom | 90 | 93 | 89 | 272 | 9 |
| 107 | surya | 11-NOV-90 | msc | 76 | 99 | 89 | 264 | 9 |
| 108 | amar | 11-NOV-12 | msc | 96 | 79 | 90 | 265 | 9 |
| 109 | oscar | 28-JUN-01 | mcom | 76 | 89 | 72 | 237 | 8 |
| 1001 | bear | 02-SEP-05 | msc | 86 | 89 | 72 | 247 | 8 |

delete from student123 where usn='103';

commit

delete from student123 where usn='102';

rollback;

select sum(gpa)as "total\_gpa" from student123;

|  |
| --- |
| **Total\_gpa** |
| 77 |
|  |

select \* from student123 where dob> '26-jan-2000' order by dob asc;

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USN** | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** |
| 104 | sachin | 12-SEP-00 | ma | 96 | 94 | 97 | 287 | 10 |
| 109 | oscar | 28-JUN-01 | mcom | 76 | 89 | 72 | 237 | 8 |
| 102 | bhuvan | 26-MAR-02 | mca | 5 | 78 | 89 | 172 | 6 |
| 101 | aravind | 26-JAN-03 | bca | 90 | 85 | 99 | 274 | 9 |
| 105 | utkarsh | 12-SEP-03 | mcom | 96 | 95 | 92 | 283 | 9 |
| 1001 | bear | 02-SEP-05 | msc | 86 | 89 | 72 | 247 | 8 |
| 108 | amar | 11-NOV-12 | msc | 96 | 79 | 90 | 265 | 9 |

select usn,name,branch,dob from student123 where dob like '%-%-90';

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USN** | | **NAME** | **BRANCH** | **DOB** |
| 106 | | yash | mcom | 23-MAY-90 |
| 107 | | surya | msc | 11-NOV-90 |
| select \* from student123 where branch='mca';   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **USN** | | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** | | 102 | | bhuvan | 26-MAR-02 | mca | 5 | 78 | 89 | 172 | 6 | |  | | |  | | | |  |

select max(gpa) from student123 where branch='mca';

|  |
| --- |
| **MAX(GPA)** |
| 6 |

select branch,max(gpa) from student123 group by branch;

|  |  |  |
| --- | --- | --- |
| **BRANCH** | | **MAX(GPA)** |
| ma | | 10 |
| bca | | 9 |
| msc | | 9 |
| mca | | 6 |
| mcom | | 9 |
| select \* from student123 where name like 's%';   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **USN** | | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** | | 104 | | sachin | 12-SEP-00 | ma | 96 | 94 | 97 | 287 | 10 | | 107 | | surya | 11-NOV-90 | msc | 76 | 99 | 89 | 264 | 9 | |  | | |  | | |  |

select sum (mark1),sum(mark2),sum(mark3) from student123;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SUM(MARK1)** | | **SUM(MARK2)** | | **SUM(MARK3)** | |
| 706 | | 723 | | 700 | |
|  | |  | |

select \* from student123 where name like '%ar';

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USN** | | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** |
| 108 | | amar | 11-NOV-12 | msc | 96 | 79 | 90 | 265 | 9 |
| 109 | | oscar | 28-JUN-01 | mcom | 76 | 89 | 72 | 237 | 8 |
| 1001 | | bear | 02-SEP-05 | msc | 86 | 89 | 72 | 247 | 8 |
|  | | |  |

delete student123 where usn='1001';

select \* from student123;

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USN** | | **NAME** | **DOB** | **BRANCH** | **MARK1** | **MARK2** | **MARK3** | **TOTAL** | **GPA** |
| 101 | | aravind | 26-JAN-03 | bca | 90 | 85 | 99 | 274 | 9 |
| 102 | | bhuvan | 26-MAR-02 | mca | 5 | 78 | 89 | 172 | 6 |
| 104 | | sachin | 12-SEP-00 | ma | 96 | 94 | 97 | 287 | 10 |
| 105 | | utkarsh | 12-SEP-03 | mcom | 96 | 95 | 92 | 283 | 9 |
| 106 | | yash | 23-MAY-90 | mcom | 90 | 93 | 89 | 272 | 9 |
| 107 | | surya | 11-NOV-90 | msc | 76 | 99 | 89 | 264 | 9 |
| 108 | | amar | 11-NOV-12 | msc | 96 | 79 | 90 | 265 | 9 |
| 109 | | oscar | 28-JUN-01 | mcom | 76 | 89 | 72 | 237 | 8 |
| 8 rows returned in 0.00 seconds | | |  |