[1]. CREATING DATABASE STUDENT_RECORD

```
mysql> CREATE DATABASE STUDENT_RECORDS;
Query OK, 1 row affected (0.00 sec)

mysql> USE STUDENT_RECORDS;
Database changed
```

[2]. CREATING TABLE STUDENT

```
mysql> USE STUDENT_RECORDS;
Database changed mysql> CREATE TABLE STUDENT (ADMNO INTEGER, STNAME VARCHAR(30), DOB DATE, ADDRESS VARCHAR(100), CITY VARCHAR(20), PHNO VARCHAR(12));
Query OK, 0 rows affected (0.18 sec)
mvsql> DESC STUDENT:
 Field
          | Type
                           | Null | Key | Default | Extra |
 ADMNO
           | int(11)
                                           NULL
                           | YES
                                           NULL
NULL
  STNAME
             varchar(30)
                            YES
 DOB
            date
                            YES
 ADDRESS | varchar(100)
CITY | varchar(20)
                           YES YES
                                           NULL
                                           NULL
 PHNO
           | varchar(12)
                           YES
                                           NULL
6 rows in set (0.17 sec)
```

[3]. CREATING TABLE RESULT

[4]. ADDING PRIMARY KEY TO THE FIELD ADMNO

```
mysql> ALTER TABLE STUDENT ADD PRIMARY KEY(ADMNO);
Query OK, 0 rows affected (0.44 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> DESC STUDENT;
                            | Null | Key | Default | Extra |
 Field
           | Type
  ADMNO
             int(11)
                                            0
                             NO
                                    | PRI |
  STNAME
             varchar(30)
                                            NULL
                            YES
  DOB
             date
                             YES
                                            NULL
  ADDRESS I
             varchar(100)
                            I YES
                                            NULL
             varchar(20)
  PHNO
             varchar (12)
                             YES
                                            NULL
6 rows in set (0.08 sec)
```

[5]. MAKING FIELD ADDRESS AS NOT NULL IN TABLE STUDENT

[6]. ADDING FIELD AADHAAR

[7]. CHANGING NAME OF FIELD FROM PHNO TO PHONENO

[8]. INSERTING RECORDS INTO TABLE STUDENT

```
mysql> INSERT INTO STUDENT VALUES(1001, 'AMAR', '2005-10-30', 'SANJAY PLACE', 'AGRA', '7418529632', '124578963212');
Query OK, 1 row affected (0.12 sec)
mysql> INSERT INTO STUDENT VALUES(1002, 'AMRIT', '2005-07-01', 'SANJAY NAGAR', 'ETAH', '5618529632', '125526563212');
Query OK, 1 row affected (0.12 sec)
mysql> INSERT INTO STUDENT VALUES(1003, 'AMAIRA', '2005-07-11', 'VIJAY NAGAR', 'ETAH', '5611245032', '741526563212');
Query OK, 1 row affected (0.12 sec)
mysql> INSERT INTO STUDENT VALUES(1004, 'ANANYA', '2006-06-17', 'G.T. ROAD', 'ETAH', '9011245122', '741426563212'););
Query OK, 1 row affected (0.12 sec)
mysql> insert into student values(1005,'Gauri','2006-12-12','Mehta Park','Etah','7414568523','952147854123');
Query OK, 1 row affected (0.13 sec)
mysql> INSERT INTO STUDENT VALUES(1006,'GARV','2006-11-02','VIJAY NAGAR','ETAH','1245788523','147852036123');
Query OK, 1 row affected (1.30 sec)
mysql> INSERT INTO STUDENT VALUES(1007, 'GARVIT', '2006-07-17', 'JAIN GALI', 'ETAH', '1212045623', '141245127123');
Query OK, 1 row affected (0.12 sec)
mvsgl> INSERT INTO STUDENT VALUES(1008.'GARIMA'.'2007-06-23'.'RAM BAGH'.'AGRA'.'1210245723'.'124575127123'):
Query OK, 1 row affected (0.11 sec)
mysql> INSERT INTO STUDENT VALUES(1009, 'PRIYA', '2006-06-18', 'HATHI GATE', 'ETAH', '9514745723', '124124578963');
Query OK, 1 row affected (0.04 sec)
mysql> INSERT INTO STUDENT VALUES(1010,'PARI','2006-02-28','HATHI GATE','ETAH','9514124583','110258778963');
Query OK, 1 row affected (0.05 sec)
mysql> SELECT*FROM STUDENT;
| ADMNO | STNAME | DOB
                              | ADDRESS
                                              | CITY | PHONENO
                                                                  AADHAAR
  1001 | AMAR
                 | 2005-10-30 | SANJAY PLACE | AGRA | 7418529632 | 124578963212
                 | 2005-07-01 | SANJAY NAGAR | ETAH | 5618529632 | 125526563212
   1002 | AMRIT
   1003 |
         AMAIRA | 2005-07-11 | VIJAY NAGAR | ETAH | 5611245032 | 741526563212
         ANANYA |
                  2006-06-17 | G.T. ROAD
2006-12-12 | MEHTA PARK
   1004 I
                                              | ETAH | 9011245122 | 741426563212
                                              | ETAH | 7414568523 | 952147854123
  1005 I
         GAURI
   1006 | GARV
                   2006-11-02 | VIJAY NAGAR | ETAH | 1245788523 | 147852036123
          GARVIT | 2006-07-17 | JAIN GALI
   1007
                                              ETAH
                                                     | 1212045623 | 141245127123
   1008 | GARIMA | 2007-06-23 | RAM BAGH
                                              | AGRA | 1210245723 | 124575127123
   1009 | PRIYA
                                              | ETAH | 9514745723 | 124124578963
| ETAH | 9514124583 | 110258778963
                  2006-06-18 | HATHI GATE
                 | 2006-02-28 | HATHI GATE
  1010 | PARI
10 rows in set (0.00 sec)
```

```
nysql> INSERT INTO RESULT VALUES(1001, 'ENGLISH', 97);
Query OK, 1 row affected (0.17 sec)
nysql> INSERT INTO RESULT VALUES(1001, 'MATHS', 99);
Query OK, 1 row affected (0.13 sec)
nysql> INSERT INTO RESULT VALUES(1002, 'ENGLISH', 91);
Query OK, 1 row affected (0.11 sec)
nysql> INSERT INTO RESULT VALUES(1002, 'MATHS', 69);
Query OK, 1 row affected (0.12 sec)
nysql> INSERT INTO RESULT VALUES(1003, 'ENGLISH', 85);
Query OK, 1 row affected (0.05 sec)
nysql> INSERT INTO RESULT VALUES(1003, 'MATHS', 78);
Query OK, 1 row affected (0.12 sec)
nysql> INSERT INTO RESULT VALUES(1004, 'ENGLISH', 100);
Query OK, 1 row affected (0.17 sec)
nysql> INSERT INTO RESULT VALUES(1004, 'MATHS', 98);
Query OK, 1 row affected (0.12 sec)
nysql> INSERT INTO RESULT VALUES(1005, 'MATHS', 55);
Query OK, 1 row affected (0.02 sec)
nysql> INSERT INTO RESULT VALUES(1005, 'ENGLISH', 99);
Query OK, 1 row affected (0.04 sec)
nysql> INSERT INTO RESULT VALUES(1006, 'ENGLISH', 78);
Query OK, 1 row affected (0.12 sec)
nysql> INSERT INTO RESULT VALUES(1006, 'MATHS', 45);
Query OK, 1 row affected (0.10 sec)
nysql> INSERT INTO RESULT VALUES(1007, 'ENGLISH', 65);
Query OK, 1 row affected (0.04 sec)
nysql> INSERT INTO RESULT VALUES(1007, 'MATHS', 92);
Query OK, 1 row affected (0.13 sec)
nysql> INSERT INTO RESULT VALUES(1008, 'ENGLISH', .85);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> INSERT INTO RESULT VALUES (1008, 'MATHS', 95);
Query OK, 1 row affected (0.10 sec)
mysql> INSERT INTO RESULT VALUES (1009, 'ENGLISH', 96);
Query OK, 1 row affected (0.13 sec)
mysql> INSERT INTO RESULT VALUES(1009, 'MATHS', 100);
Query OK, 1 row affected (0.12 sec)
mysql> INSERT INTO RESULT VALUES(1010, 'ENGLISH', 40);
Query OK, 1 row affected (0.11 sec)
mysql> INSERT INTO RESULT VALUES (1010, 'MATHS', 25);
Query OK, 1 row affected (0.14 sec)
mysql> SELECT*FROM RESULT;
+----+
| ADMNO | SUBJECT | MARKS |
+----+
  1001 | ENGLISH |
                       97 |
| 1001 | MATHS |
                      99 |
  1002 | ENGLISH | 91 |
1002 | MATHS | 69 |
  1003 | ENGLISH | 85 |
  1003 | MATHS |
                      78 |
  1004 | ENGLISH | 100 |
  1004 | MATHS |
                      98 |
  1005 | MATHS |
                      55 |
  1005 | ENGLISH |
                      99 |
  1006 | ENGLISH |
                     78 |
  1006 | MATHS |
                      45 I
  1007 | ENGLISH |
                      65 |
  1007 | MATHS |
                      92 I
  1008 | ENGLISH | 85 |
  1008 | MATHS |
                      95 I
```

+----+ 20 rows in set (0.09 sec)

1010 | MATHS | 25 |

96 I

40 |

100 |

1009 | ENGLISH |

1010 | ENGLISH |

1009 | MATHS |

[10]. DISPLAYING ALL RECORDS WHERE ADMNO IS BETWEEN 1003 AND 1007 FROM STUDENT

ADMNO STNAME DO	FUDENT WHERE ADMNO BETWEE 	+++	AADHAAR
1003 AMAIRA 20 1004 ANANYA 20 1005 GAURI 20 1006 GARV 20 1007 GARVIT 20	005-07-11 VIJAY NAGAR 006-06-17 G.T. ROAD 006-12-12 MEHTA PARK 006-11-02 VIJAY NAGAR 006-07-17 JAIN GALI	ETAH 5611245032 ETAH 9011245122 ETAH 7414568523 ETAH 1245788523	741526563212 741426563212 952147854123 147852036123 141245127123

[11]. DISPLAYING ALL RECORDS OF STUDENT WHERE CITY IS DELHI OR AGRA

1001 AMAR 2005-10-30 SANJAY PLACE AGRA 7418529632 124578963212
1008 GARIMA 2007-06-23 RAM BAGH AGRA 1210245723 124575127123 1011 VANSH 2006-10-22 ANAND VIHAR DELHI 7485961587 954782103654

[12]. DISPLAYING RECORDS WHERE CITY IS EXCEPT DELHI OR AGRA

							E CITY NOT IN (•	• •	+-	
		•		•		•		•		•		•	AADHAAR
Ī													125526563212
-1	1003	П	AMAIRA	П	2005-07-11	П	VIJAY NAGAR	T	ETAH	П	5611245032	ı	741526563212
1	1004	L	ANANYA	L	2006-06-17	L	G.T. ROAD	Ī	ETAH	Ī	9011245122	ı	741426563212
ı	1005	Ĺ	GAURI	Ĺ	2006-12-12	Ĺ	MEHTA PARK	Ĺ	ETAH	Ĺ	7414568523	Ĺ	952147854123
Ĺ	1006	Ĺ	GARV	Ĺ	2006-11-02	Ĺ	VIJAY NAGAR	Ĺ	ETAH	Ĺ	1245788523	Ĺ	147852036123
Ĺ	1007	Ĺ	GARVIT	Ĺ	2006-07-17	Ĺ	JAIN GALI	Ĺ	ETAH	Ĺ	1212045623	Ĺ	141245127123
i	1009	Ĺ	PRIYA	Ĺ	2006-06-18	Ĺ	HATHI GATE	Ĺ	ETAH	Ĺ	9514745723	Ĺ	124124578963
i	1010	Ĺ	PARI	Ĺ	2006-02-28	Ĺ	HATHI GATE	Ĺ	ETAH	Ĺ	9514124583	Ĺ	110258778963
+		+-		+-		+-		+		+-		+-	
			set (0.										

[13]. DISPLAYING RECORDS OF STUDENTS WHOSE NAME START WITH THE LETTER A

NO STNAME DOB +	ADDRESS C	•	•
01 AMAR 2005-10-30	10-30 SANJAY PLACE AC	RA 7418529632	124578963212
02 AMRIT 2005-07-01	07-01 SANJAY NAGAR E	AH 5618529632	125526563212
03 AMAIRA 2005-07-11	07-11 VIJAY NAGAR E	AH 5611245032	741526563212
04 ANANYA 2006-06-17	06-17 G.T. ROAD E	AH 9011245122	741426563212

[14]. DISPLAYING RECORDS OF STUDENTS WHOSE NAME START WITH A AND HAS EXACTLY 4 CHARACTERS.

				RE STNAME LIKE			·
i	ADMNO	STNAME	DOB	ADDRESS	CITY	PHONENO	AADHAAR
ı	1001	AMAR	2005-10-30	SANJAY PLACE	AGRA	7418529632	124578963212
		set (0.00	•		+		++

[15]. DISPLAYING RECORDS OF STUDENTS IN ASCENDING OF THEIR NAMES

ADMNO	Ī		•	ADDRESS	•	CITY	į	PHONENO	•	AADHAAR
			+ 2005-07-11			ETAH	ī			741526563212
1001	i.	AMAR	2005-10-30	SANJAY PLACE	i	AGRA	i	7418529632	i.	124578963212
1002	Ī	AMRIT	2005-07-01	SANJAY NAGAR	ĺ	ETAH	ĺ	5618529632	Ĺ	125526563212
1004	Ī	ANANYA	2006-06-17	G.T. ROAD	Ī	ETAH	1	9011245122	1	741426563212
1008	L	GARIMA	2007-06-23	RAM BAGH	Ī	AGRA	T	1210245723	T	124575127123
1006	L	GARV	2006-11-02	VIJAY NAGAR	Ī	ETAH	T	1245788523	Ī	147852036123
1007	L	GARVIT	2006-07-17	JAIN GALI	Ī	ETAH	Τ	1212045623	T	141245127123
1005	L	GAURI	2006-12-12	MEHTA PARK	Ī	ETAH	T	7414568523	T	952147854123
1010	1	PARI	2006-02-28	HATHI GATE	I	ETAH	1	9514124583	1	110258778963
1009	1	PRIYA	2006-06-18	HATHI GATE	I	ETAH	1	9514745723	1	124124578963
1011	1	VANSH	2006-10-22	ANAND VIHAR	I	DELHI	1	7485961587	1	954782103654

[16]. DISPLAYING RECORDS OF STUDENTS IN DESCENDING ORDER OF THEIR DOB

	ADMNO	•		•	DOB	ı	ADDRESS	Ī	CITY	•	PHONENO	•	AADHAAR	ļ
							RAM BAGH							
	1005		GAURI	Ī	2006-12-12	ı	MEHTA PARK	Ī	ETAH	Τ	7414568523		952147854123	1
	1006		GARV	Ī	2006-11-02	ı	VIJAY NAGAR	Ī	ETAH	Τ	1245788523		147852036123	1
ı	1011		VANSH	Ī	2006-10-22	ı	ANAND VIHAR	Ī	DELHI	Τ	7485961587		954782103654	1
	1007		GARVIT	Ī	2006-07-17	Ī	JAIN GALI	Ī	ETAH	Τ	1212045623		141245127123	Ī
	1009		PRIYA	Ī	2006-06-18	Ī	HATHI GATE	Ī	ETAH	Τ	9514745723		124124578963	Ī
	1004		ANANYA	Ī	2006-06-17	Ī	G.T. ROAD	Ī	ETAH	Τ	9011245122		741426563212	Ī
	1010		PARI	Ī	2006-02-28	Ī	HATHI GATE	Ī	ETAH	Τ	9514124583		110258778963	Ī
	1001	ı	AMAR	Ī	2005-10-30	Ī	SANJAY PLACE	Ī	AGRA	Τ	7418529632		124578963212	Ī
	1003		AMAIRA	I	2005-07-11	ı	VIJAY NAGAR	I	ETAH	1	5611245032		741526563212	1
	1002		AMRIT	I	2005-07-01	ı	SANJAY NAGAR	I	ETAH	1	5618529632		125526563212	1

[17]. UPDATING A RECORD IN TABLE STUDENT

mysql> UPDATE STUDENT SET STNAME="ANISHA" WHERE ADMNO=1004; Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT*FROM STUDENT;

+		+	+	+	+	+		+
1	ADMNO	STNAME	DOB	ADDRESS	CITY	PHONENO	AADHAAR	
+		+	+	+	+	+		+
١	1001	AMAR	2005-10-30	SANJAY PLACE	AGRA	7418529632	124578963212	L
١	1002	AMRIT	2005-07-01	SANJAY NAGAR	ETAH	5618529632	125526563212	L
١	1003	AMAIRA	2005-07-11	VIJAY NAGAR	ETAH	5611245032	741526563212	L
ı	1004	ANISHA	2006-06-17	G.T. ROAD	ETAH	9011245122	741426563212	L
١	1005	GAURI	2006-12-12	MEHTA PARK	ETAH	7414568523	952147854123	L
١	1006	GARV	2006-11-02	VIJAY NAGAR	ETAH	1245788523	147852036123	L
١	1007	GARVIT	2006-07-17	JAIN GALI	ETAH	1212045623	141245127123	ı
١	1008	GARIMA	2007-06-23	RAM BAGH	AGRA	1210245723	124575127123	L
١	1009	PRIYA	2006-06-18	HATHI GATE	ETAH	9514745723	124124578963	L
١	1010	PARI	2006-02-28	HATHI GATE	ETAH	9514124583	110258778963	1
١	1011	VANSH	2006-10-22	ANAND VIHAR	DELHI	7485961587	954782103654	L
+		+	+	+	+	+	·	+
			00					

11 rows in set (0.00 sec)

[18]. DELETING A RECORD FROM TABLE STUDENT

mysql> DELETE FROM STUDENT WHERE ADMNO=1011; Query OK, 1 row affected (0.12 sec)

nysql> SELECT*FROM STUDENT;

						++
•	•	•	•	•	•	AADHAAR
						12 4 578963212
	•	•	•		•	125526563212
1003	AMAIRA	2005-07-11	VIJAY NAGAR	ETAH	5611245032	741526563212
1004	ANISHA	2006-06-17	G.T. ROAD	ETAH	9011245122	741426563212
1005	GAURI	2006-12-12	MEHTA PARK	ETAH	7414568523	952147854123
1006	GARV	2006-11-02	VIJAY NAGAR	ETAH	1245788523	147852036123
1007	GARVIT	2006-07-17	JAIN GALI	ETAH	1212045623	141245127123
1008	GARIMA	2007-06-23	RAM BAGH	AGRA	1210245723	124575127123
1009	PRIYA	2006-06-18	HATHI GATE	ETAH	9514745723	124124578963
	PARI	•	HATHI GATE			110258778963
	+	+	+	+	+	++

10 rows in set (0.00 sec)

[19]. DISPLAYING ADMNO AND TOTAL MARKS FROM TABLE RESULT

```
mysql> SELECT ADMNO,SUM(MARKS) FROM RESULT GROUP BY ADMNO;
+-----+
| ADMNO | SUM(MARKS) |
+-----+
| 1001 | 196 |
| 1002 | 160 |
| 1003 | 163 |
| 1004 | 198 |
| 1005 | 154 |
| 1006 | 123 |
| 1007 | 157 |
| 1008 | 180 |
| 1009 | 196 |
| 1010 | 65 |
+------+

10 rows in set (0.02 sec)
```

[20]. DISPLAYING UNIQUE CITY FROM TABLE STUDENT

```
nysql> SELECT DISTINCT(CITY) FROM STUDENT;
+-----+
| CITY |
+-----+
| AGRA |
| ETAH |
+-----+
2 rows in set (0.00 sec)
```

[21]. DISPALYING ADMNO AND TOTAL MARKS OF A STUDENT FROM TABLE RESULT

```
mysql> SELECT ADMNO,SUM(MARKS) FROM RESULT GROUP BY ADMNO HAVING ADMNO=1002;
+-----+
| ADMNO | SUM(MARKS) |
+-----+
| 1002 | 160 |
+-----+
1 row in set (0.03 sec)
```

[22]. DISPLAYING NAME AND MARKS OF ALL STUDENTS IN ENGLISH SUBJECT

[23]. DISPLAYING 30% MARKS OF ALL SUBJECTS WITH CALCULATING FIELD TITLE AS 'CONVERTED' FROM TABLE RESULT

```
mysql> SELECT MARKS*30/100 CONVERTED FROM RESULT;
| CONVERTED |
   29.1 |
29.7 |
     27.3 |
     20.7
     25.5
     23.4
      30 |
     29.4
     16.5 |
     29.7 |
     23.4 |
     13.5 |
      19.5 |
      27.6 |
     25.5 |
     28.5 |
     28.8 |
       30 |
       12 |
      7.5
20 rows in set (0.12 sec)
```