

Create a table **student\_data** with the following fields: roll number(primary key), name, age, place.

- Create a **view** which contains only roll number and name.
- List the data of the view.
- Describe the view.
- Insert a value into the view and list the view and table.
- Update a value in the view and list the view and table.
- Delete a value in the table and list the view and table.
- Create another view which contains name and age column and check whether the above operations are possible in this view.

```
SQL> CREATE TABLE student_data(rollno INT PRIMARY KEY, name VARCHAR(20), age INT, place VARCHAR(20));  
Table created.
```

### Answers:

a)

```
SQL> CREATE VIEW a (rollno, name) AS SELECT rollno, name FROM student_data;  
View created.
```

b)

```
SQL> SELECT * FROM a;  
  
ROLLNO NAME  
-----  
70 Zameel Hassan  
61 Sumayya Maheen  
69 Vivek Nair  
15 Krishnendu B
```

c)

```
SQL> DESC a;  
Name Null? Type  
-----  
ROLLNO NOT NULL NUMBER(38)  
NAME VARCHAR2(20)
```

d)

```
SQL> INSERT INTO a VALUES(71, 'Albin Joseph');

1 row created.

SQL> SELECT * FROM a;

  ROLLNO NAME
-----
    70 Zameel Hassan
    61 Sumayya Maheen
    69 Vivek Nair
    15 Krishnendu B
    71 Albin Joseph

SQL> SELECT * FROM student_data;

  ROLLNO NAME                AGE PLACE
-----
    70 Zameel Hassan          20 Kasaragod
    61 Sumayya Maheen         20 Kollam
    69 Vivek Nair             19 Kottayam
    15 Krishnendu B           21 Alappuzha
    71 Albin Joseph
```

e)

```
SQL> UPDATE a SET rollno=62 WHERE name='Zameel Hassan';

1 row updated.

SQL> SELECT * FROM a;

  ROLLNO NAME
-----
    62 Zameel Hassan
    61 Sumayya Maheen
    69 Vivek Nair
    15 Krishnendu B
    71 Albin Joseph

SQL> SELECT * FROM student_data;

  ROLLNO NAME                AGE PLACE
-----
    62 Zameel Hassan          20 Kasaragod
    61 Sumayya Maheen         20 Kollam
    69 Vivek Nair             19 Kottayam
    15 Krishnendu B           21 Alappuzha
    71 Albin Joseph
```

f)

```
SQL> DELETE FROM student_data WHERE name='Albin Joseph';
```

```
1 row deleted.
```

```
SQL> SELECT * FROM student_data;
```

ROLLNO	NAME	AGE	PLACE
62	Zameel Hassan	20	Kasaragod
61	Sumayya Maheen	20	Kollam
69	Vivek Nair	19	Kottayam
15	Krishnendu B	21	Alappuzha

```
SQL> SELECT * FROM a;
```

ROLLNO	NAME
62	Zameel Hassan
61	Sumayya Maheen
69	Vivek Nair
15	Krishnendu B

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g)

```
SQL> CREATE VIEW b (name, age) AS SELECT name, age FROM student_data;
```

```
View created.
```

```
SQL> INSERT INTO b VALUES('Albin Joseph', 22);
```

```
INSERT INTO b VALUES('Albin Joseph', 22)
```

```
*
```

```
ERROR at line 1:
```

```
ORA-01400: cannot insert NULL into ("ZAMEELH"."STUDENT_DATA"."ROLLNO")
```

```
SQL> UPDATE b SET age=21 WHERE name='Zameel Hassan';
```

```
1 row updated.
```

```
SQL> SELECT * FROM student_data;
```

ROLLNO	NAME	AGE	PLACE
62	Zameel Hassan	21	Kasaragod
61	Sumayya Maheen	20	Kollam
69	Vivek Nair	19	Kottayam
15	Krishnendu B	21	Alappuzha

```
SQL> SELECT * FROM b;
```

NAME	AGE
Zameel Hassan	21
Sumayya Maheen	20
Vivek Nair	19
Krishnendu B	21

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