



**COLLEGE:** Sardar Patel Institute of Technology

**AIM:** To create table for given schemas with sample data (exp 2)

**SUBJECT:** DBMS

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**UID:**

**BATCH:** D3

**BRANCH:** CS(DS)

**We use the ‘CREATE TABLE’ SQL command to create tables for given schemas, with required constraints and data types.**

## 1. Bus

We create Bus table with the attributes, bus\_no, source\_station, destination and couch\_type

### Query -

```
CREATE TABLE bus (
    bus_no varchar(10) PRIMARY KEY,
    source_station varchar(20) NOT NULL,
    destination varchar(20) NOT NULL,
    couch_type varchar(20) DEFAULT 'Seater'
);
```

### Output -

The screenshot shows a terminal window with a dark background. At the top, there is a code editor pane displaying the SQL command to create a 'bus' table. The code includes line numbers from 7 to 17. Lines 10 through 15 define the table structure with columns: bus\_no, source\_station, destination, and couch\_type. Line 16 ends the definition with a closing parenthesis. Line 17 ends the statement with a semicolon. Below the code editor is a table titled 'Action Output'. It has four columns: Action, Time, Response, and Duration / Fetch Time. A single row is shown, indicating the creation of the table at 22:26:20, with a response of '0 row(s) affected' and a duration of 0.014 sec.

Action	Time	Response	Duration / Fetch Time
CREATE TABLE bus ( bus_no varchar(10) PRIMARY KEY, source_stati...	22:26:20	0 row(s) affected	0.014 sec

Now, We insert sample data in this Bus table and view the table

### Query -

```
INSERT INTO bus VALUES('C-71', 'Oberoi Mall', 'Azad nagar', 'Sleeper');
INSERT INTO bus (bus_no, source_station, destination) VALUES('A-254', 'Andheri station', 'Versova');
INSERT INTO bus VALUES
('25', 'Ram nagar', 'SVSU garden', 'Seater'),
('A-167', 'Vile parle West', 'Tanaji nagar', 'Seater'),
('645', 'Hub mall', 'SKVM', 'Seater'),
```

```
('461', 'Borivali station', 'MB mart', 'Seater'),
('A-56', 'SRP camp', 'Kurar village', 'Sleeper');
SELECT * FROM bus;
```

## Output -

The screenshot shows the MySQL Workbench interface. At the top, there is a code editor window displaying the following SQL script:

```
18 • INSERT INTO bus VALUES('C-71', 'Oberoi Mall', 'Azad nagar', 'Sleeper');
20 • INSERT INTO bus (bus_no, source_station, destination) VALUES('A-254', 'Andheri station', 'Versova');
21 • INSERT INTO bus VALUES
22 ('25', 'Ram nagar', 'SVSU garden', 'Seater'),
23 ('A-167', 'Vile parle West', 'Tanaji nagar', 'Seater'),
24 ('645', 'Hub mall', 'SKVM', 'Seater'),
25 ('461', 'Borivali station', 'MB mart', 'Seater'),
26 ('A-56', 'SRP camp', 'Kurar village', 'Sleeper');
27
28 • SELECT * FROM bus;
29
```

Below the code editor is a result grid table with the following data:

bus_no	source_station	destination	couch_type
25	Ram nagar	SVSU garden	Seater
461	Borivali station	MB mart	Seater
645	Hub mall	SKVM	Seater
A-167	Vile parle West	Tanaji nagar	Seater
A-254	Andheri station	Versova	Seater
A-56	SRP camp	Kurar village	Sleeper
C-71	Oberoi Mall	Azad nagar	Sleeper
HULL	HULL	HULL	HULL

At the bottom of the interface, there is an "Action Output" section showing the log of executed statements:

Action	Time	Action	Response	Duration / Fetch Time
12	22:31:40	INSERT INTO bus VALUES('C-71', 'Oberoi Mall', 'Azad nagar', 'Sleeper')	1 row(s) affected	0.00097 sec
13	22:31:41	INSERT INTO bus (bus_no, source_station, destination) VALUES('A-254', 'Andheri station', 'Versova')	1 row(s) affected	0.0011 sec
14	22:31:43	INSERT INTO bus VALUES ('25', 'Ram nagar', 'SVSU garden', 'Seater')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0013 sec
15	22:31:44	SELECT * FROM bus LIMIT 0, 1000	7 row(s) returned	0.00049 sec / 0.000...

## 2. Reservation

We create reservation table with attributes, pnr\_no, journey\_date, no\_of\_seats, address, contact\_no, bus\_no, seat\_no

### Query -

```
CREATE TABLE reservation (
    pnr_no BIGINT PRIMARY KEY,
    journey_date DATE NOT NULL,
    no_of_seats INTEGER(8) NOT NULL,
    address VARCHAR(50),
    contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),
    bus_no VARCHAR(10) NOT NULL,
    seat_no INT NOT NULL,
    FOREIGN KEY (bus_no) REFERENCES bus(bus_no)
);
```

## Output -

The screenshot shows the MySQL Workbench interface. At the top, there is a code editor window displaying the SQL query for creating the 'reservation' table. The code includes various data types and constraints like PRIMARY KEY, NOT NULL, and FOREIGN KEY. Below the code editor is a progress bar indicating the operation is at 100% completion and took 19:28. Underneath the progress bar is a table titled 'Action Output' with one row showing the execution details: Time (22:40:19), Action (CREATE TABLE reservation ...), Response (0 row(s) affected), and Duration / Fetch Time (0.012 sec).

```
30
31
32 CREATE TABLE reservation (
33     pnr_no BIGINT PRIMARY KEY,
34     journey_date DATE NOT NULL,
35     no_of_seats INTEGER(9) NOT NULL,
36     address VARCHAR(50),
37     contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),
38     bus_no VARCHAR(10) NOT NULL,
39     seat_no INT NOT NULL,
40     FOREIGN KEY (bus_no) REFERENCES bus(bus_no)
41 );
```

Action	Time	Action	Response	Duration / Fetch Time
1	22:40:19	CREATE TABLE reservation ( pnr_no BIGINT PRIMARY KEY, jour... )	0 row(s) affected	0.012 sec

Now, We insert sample data in this reservation table and view the table

## Query -

```
INSERT INTO reservation VALUES (6783, '2022-11-25', 2, 'SRP CAMP rajendra nagar, Borivali West', 8887772355, 'A-56', 23);
```

```
INSERT INTO reservation VALUES (189, '2022-11-28', 3, 'azad nagar, Borivali West', 8328895926, 'A-56', 23);
```

```
INSERT INTO reservation VALUES
```

```
(8932, '2022-11-21', 1, 'Thakur complex, Kandivali', 9923454388, 'A-254', 42),
```

```
(8873, '2022-12-5', 4, 'Thakur complex, Malad', 8985345882, 'A-254', 32),
```

```
(8238, '2022-11-21', 3, 'Ram nagar, Andheri', 7238572384, 'A-254', 9),
```

```
(2321, '2022-12-29', 5, 'SG campus', 9923454388, 'A-167', 26),
```

```
(1234, '2022-12-5', 4, 'Shivaji nagar', 8985345882, '25', 9),
```

```
(43532, '2022-11-30', 1, 'Tanaji nagar, malad', 8482852972, '461', 2);
```

```
SELECT * FROM reservation;
```

## Output -

```
42
43 • INSERT INTO reservation VALUES (6783, '2022-11-25', 2, 'SRP CAMP rajendra nagar, Borivali West', 8887772355, 'A-56', 23);
44 • INSERT INTO reservation VALUES (189, '2022-11-28', 3, 'azad nagar, Borivali West', 8328895926, 'A-56', 23);
45 • INSERT INTO reservation VALUES
46 (8932, '2022-11-21', 1, 'Thakur complex, Kandivali', 9923454388, 'A-254', 42),
47 (8873, '2022-12-5', 4, 'Thakur complex, Malad', 8985345882, 'A-254', 32),
48 (8238, '2022-11-21', 3, 'Ram nagar, Andheri', 7238572384, 'A-254', 9),
49 (2321, '2022-12-29', 5, 'SG campus', 9923454388, 'A-167', 26),
50 (1234, '2022-12-5', 4, 'Shivaji nagar', 8985345882, '25', 9),
51 (43532, '2022-11-30', 1, 'Tanaji nagar, malad', 8482852972, '461', 2);
52
53 • SELECT * FROM reservation;
54
```

Result Grid

pnr_no	journey_date	no_of_seats	address	contact_no	bus_no	seat_no
► 189	2022-11-28	3	azad nagar, Borivali West	8328895926	A-56	23
1234	2022-12-05	4	Shivaji nagar	8985345882	25	9
2321	2022-12-29	5	SG campus	9923454388	A-167	26
6783	2022-11-25	2	SRP CAMP rajendra nagar, Borivali West	8887772355	A-56	23
8238	2022-11-21	3	Ram nagar, Andheri	7238572384	A-254	9
8873	2022-12-05	4	Thakur complex, Malad	8985345882	A-254	32
8932	2022-11-21	1	Thakur complex, Kandivali	9923454388	A-254	42
43532	2022-11-30	1	Tanaji nagar, malad	8482852972	461	2
HULL	HULL	HULL	HULL	HULL	HULL	HULL

Action Output

Time	Action	Response	Duration / Fetch Time
23:24:18	INSERT INTO reservation VALUES (6783, '2022-11-25', 2, 'SRP C...',	1 row(s) affected	0.001 sec
23:24:19	INSERT INTO reservation VALUES (189, '2022-11-28', 3, 'azad na...',	1 row(s) affected	0.00098 sec
23:24:20	INSERT INTO reservation VALUES (8932, '2022-11-21', 1, 'Thakur...',	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.0011 sec
23:24:22	SELECT * FROM reservation LIMIT 0, 1000	8 row(s) returned	0.00058 sec / 0.000...

## 3. Ticket

We create ticket table with attributes, ticket\_no, journey\_date, age, sex, source\_station, destination, dep\_time, bus\_no

### Query -

```
CREATE TABLE ticket (
    ticket_no BIGINT PRIMARY KEY,
    journey_date DATE NOT NULL,
    age INT(4) NOT NULL,
    sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'),
    source_station VARCHAR(20) NOT NULL,
    destination VARCHAR(20) NOT NULL,
    dep_time VARCHAR(10) NOT NULL,
    bus_no VARCHAR(10) NOT NULL,
    FOREIGN KEY(bus_no) REFERENCES bus(bus_no)
);
```

## Output -

The screenshot shows the MySQL Workbench interface. In the main pane, a SQL query is displayed:

```
54  
55  
56 • CREATE TABLE ticket (  
57     ticket_no BIGINT PRIMARY KEY,  
58     journey_date DATE NOT NULL,  
59     age INT(4) NOT NULL,  
60     sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'),  
61     source_station VARCHAR(20) NOT NULL,  
62     destination VARCHAR(20) NOT NULL,  
63     dep_time VARCHAR(10) NOT NULL,  
64     bus_no VARCHAR(10) NOT NULL,  
65     FOREIGN KEY(bus_no) REFERENCES bus(bus_no)  
66 );  
67
```

The status bar at the bottom indicates "100% 1:53". Below the query, the "Action Output" tab is selected, showing the execution log:

Action	Time	Response	Duration / Fetch Time
CREATE TABLE ticket ( ticket_no BIGINT PRIMARY KEY, journe...	22:47:48	0 row(s) affected	0.013 sec

Now, We insert sample data in this ticket table and view the table

### Query -

```
INSERT INTO ticket VALUES(9828592949, '2022-12-22', 25, 'male', 'Hub mall', 'Kurar village', '10:25 am', '645');
```

```
INSERT INTO ticket VALUES(8293877390, '2022-12-15', 26, 'female', 'azad nagar', 'SRP camp', '9:18 am', 'A-56');
```

```
INSERT INTO ticket VALUES
```

```
(9348734798, '2022-12-22', 16, 'male', 'GT nagar', 'Azad nagar', '12:25 pm', 'C-71'),  
(88345884898, '2022-12-18', 17, 'female', 'SKVM', 'Pravin SD', '8:45 am', '461'),  
(9934598549, '2022-12-22', 28, 'female', 'Shiv mandir', 'Tilak nagar', '9:20 pm', '645'),  
(9889483847, '2022-12-22', 19, 'male', 'Rajendra nagar', 'Kurar village', '11:10 am', 'A-167'),  
(9889239405, '2022-12-22', 19, 'female', 'GTS', 'SKVM', '7:56 pm', '25'),  
(8293877327, '2022-12-22', 57, 'female', 'SGT', 'SRP camp', '8:20 am', 'A-56'),  
(9889138984, '2022-12-22', 45, 'female', 'JB nagar', 'Andheri', '9:11 am', 'A-254');
```

```
SELECT * FROM ticket;
```

## Output -

```
67   --,
68
69 • INSERT INTO ticket VALUES(9828592949, '2022-12-22', 25, 'male', 'Hub mall', 'Kurar village', '10:25 am', '645');
70 • INSERT INTO ticket VALUES(8293877390, '2022-12-15', 26, 'female', 'azad nagar', 'SRP camp', '9:18 am', 'A-56');
71 • INSERT INTO ticket VALUES
72   (9348734798, '2022-12-22', 16, 'male', 'GT nagar', 'Azad nagar', '12:25 pm', 'C-71'),
73   (88345884898, '2022-12-18', 17, 'female', 'SKVM', 'Pravin SD', '8:45 am', '461'),
74   (9934598549, '2022-12-22', 28, 'female', 'Shiv mandir', 'Tilak nagar', '9:20 pm', '645'),
75   (9889483847, '2022-12-22', 19, 'male', 'Rajendra nagar', 'Kurar village', '11:10 am', 'A-167'),
76   (9889239405, '2022-12-22', 19, 'female', 'GTS', 'SKVM', '7:56 pm', '25'),
77   (8293877327, '2022-12-22', 57, 'female', 'SGT', 'SRP camp', '8:20 am', 'A-56'),
78   (9889138984, '2022-12-22', 45, 'female', 'JB nagar', 'Andheri', '9:11 am', 'A-254');
79
80 • SELECT * FROM ticket;
81
82
```

ticket_no	journey_date	age	sex	source_station	destination	dep_time	bus_no
8293877327	2022-12-22	57	female	SGT	SRP camp	8:20 am	A-56
8293877390	2022-12-15	26	female	azad nagar	SRP camp	9:18 am	A-56
9348734798	2022-12-22	16	male	GT nagar	Azad nagar	12:25 pm	C-71
9828592949	2022-12-22	25	male	Hub mall	Kurar village	10:25 am	645
9889138984	2022-12-22	45	female	JB nagar	Andheri	9:11 am	A-254
9889239405	2022-12-22	19	female	GTS	SKVM	7:56 pm	25
9889483847	2022-12-22	19	male	Rajendra nagar	Kurar village	11:10 am	A-167
9934598549	2022-12-22	28	female	Shiv mandir	Tilak nagar	9:20 pm	645
88345884898	2022-12-18	17	female	SKVM	Pravin SD	8:45 am	461
HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL
ticket 21							

## 4. Passenger

We create passenger table with attributes, pnr\_no, ticket\_no, name, age, sex, contact\_no

## Query -

```
CREATE TABLE passenger(
    pnr_no BIGINT PRIMARY KEY,
    ticket_no BIGINT,
    name VARCHAR(15),
    age INT(4) NOT NULL,
    sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'),
    contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),
    FOREIGN KEY(ticket_no) REFERENCES ticket(ticket_no),
    FOREIGN KEY(pnr_no) REFERENCES reservation(pnr_no)
);
```

## Output -

```

80
81 • CREATE TABLE passenger(
82     pnr_no BIGINT PRIMARY KEY,
83     ticket_no BIGINT,
84     name VARCHAR(15),
85     age INT(4) NOT NULL,
86     sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'),
87     contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),
88     FOREIGN KEY(ticket_no) REFERENCES ticket(ticket_no),
89     FOREIGN KEY(pnr_no) REFERENCES reservation(pnr_no)
90 );

```

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	22:53:11	CREATE TABLE passenger( pnr_no BIGINT PRIMARY KEY, ticket_no BIGINT, name VARCHAR(15), age INT(4) NOT NULL, sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'), contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999), FOREIGN KEY(ticket_no) REFERENCES ticket(ticket_no), FOREIGN KEY(pnr_no) REFERENCES reservation(pnr_no) );	0 row(s) affected	0.021 sec

Now, We insert sample data in this Bus table and view the table

### Query -

```
INSERT INTO passenger VALUES(189, 8293877390, 'Ryan', 32, 'male', 9238923949, 'Mumbai');
```

```
INSERT INTO passenger VALUES
```

```
(6783, 9828592949, 'John', 25, 'male', 8887772355),
(8932, 88345884898, 'Jane', 17, 'female', 9923454388),
(43532, 9934598549, 'Mina', 28, 'female', 8482852972),
(1234, 9889239405, 'Mark', 20, 'male', 8985345882),
(8873, 9934598549, 'Martha', 35, 'female', 8985345882),
(8238, 8293877327, 'Jemima', 57, 'female', 7238572384),
(2321, 9889483847, 'Samuel', 19, 'male', 9923454388);
```

## Output -

```
96
97 • INSERT INTO passenger VALUES(189, 8293877390, 'Ryan', 32, 'male', 9238923949);
98 • INSERT INTO passenger VALUES
99 (6783, 9828592949, 'John', 25, 'male', 8887772355),
100 (8932, 88345884898, 'Jane', 17, 'female', 9923454388),
101 (43532, 9934598549, 'Mina', 28, 'female', 8482852972),
102 (1234, 9889239405, 'Mark', 20, 'male', 8985345882),
103 (8873, 9934598549, 'Martha', 35, 'female', 8985345882),
104 (8238, 8293877327, 'Jemima', 57, 'female', 7238572384),
105 (2321, 9889483847, 'Samuel', 19, 'male', 9923454388);
106
107 • SELECT * FROM passenger;
```

pnr_no	ticket_no	name	age	sex	contact_no
189	8293877390	Ryan	32	male	9238923949
1234	9889239405	Mark	20	male	8985345882
2321	9889483847	Samuel	19	male	9923454388
6783	9828592949	John	25	male	8887772355
8238	8293877327	Jemima	57	female	7238572384
8873	9934598549	Martha	35	female	8985345882
8932	88345884898	Jane	17	female	9923454388
43532	9934598549	Mina	28	female	8482852972
NULL	NULL	NULL	NULL	NULL	NULL

passenger 22

Action	Time	Action	Response	Duration / Fetch Time
✓ 1	23:22:05	INSERT INTO passenger VALUES(189, 8293877390, 'Ryan', 32, 'male', 9238923949);	1 row(s) affected	0.0014 sec
✓ 2	23:22:06	INSERT INTO passenger VALUES (6783, 9828592949, 'John', 25, 'male', 8887772355);	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.0016 sec
✓ 3	23:22:16	SELECT * FROM passenger LIMIT 0, 1000	8 row(s) returned	0.00055 sec / 0.0000...

## 5. Cancellation

We create cancellation table with attributes, pnr\_no, journey\_date, seat\_no, contact\_no

### Query -

```
CREATE TABLE cancellation(
```

```
    pnr_no BIGINT PRIMARY KEY,
    journey_date DATE NOT NULL,
    seat_no INT NOT NULL,
    contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),
    FOREIGN KEY(pnr_no) REFERENCES reservation(pnr_no)
);
```

## Output -

The screenshot shows the MySQL Workbench interface. At the top, there is a code editor window displaying the SQL query for creating the 'cancellation' table. The table has columns: pnr\_no (BIGINT PRIMARY KEY), journey\_date (DATE NOT NULL), seat\_no (INT NOT NULL), and contact\_no (BIGINT). A CHECK constraint ensures contact\_no is between 1000000000 and 9999999999. A FOREIGN KEY constraint links pnr\_no to the primary key of the reservation table. Below the code editor is a progress bar at 100% completion and a timestamp of 32:107. Underneath is a table titled 'Action Output' showing the execution details. It has columns: Action, Time, Response, and Duration / Fetch Time. One row is shown: CREATE TABLE cancellation( pnr\_no BIGINT PRIMARY KEY, ... ) took 0.011 sec.

Action	Time	Response	Duration / Fetch Time
CREATE TABLE cancellation( pnr_no BIGINT PRIMARY KEY, ... )	22:59:08	0 row(s) affected	0.011 sec

Now, We insert sample data in this cancellation table and view the table

## Query -

```
INSERT INTO cancellation VALUES
(6783, '2022-11-25', 23, 8887772355),
(8932, '2022-11-21', 42, 9923454388),
(43532, '2022-11-30', 2, 8482852972),
(1234, '2022-12-5', 9, 8985345882),
(8873, '2022-12-5', 32, 8985345882),
(8238, '2022-11-21', 32, 7238572384),
(2321, '2022-12-29', 26, 9923454388);
```

## Output -

The screenshot shows the MySQL Workbench interface. At the top, there is a code editor window displaying the SQL query for inserting sample data into the 'cancellation' table. The data includes various dates, seat numbers, and contact numbers. Below the code editor is a progress bar at 100% completion and a timestamp of 1:126. Underneath is a table titled 'Result Grid' showing the inserted data. It has columns: pnr\_no, journey\_date, seat\_no, and contact\_no. The data is as follows:

pnr_no	journey_date	seat_no	contact_no
2321	2022-12-29	26	9923454388
6783	2022-11-25	23	8887772355
8238	2022-11-21	32	7238572384
8873	2022-12-05	32	8985345882
8932	2022-11-21	42	9923454388
43532	2022-11-30	2	8482852972
	HULL	HULL	HULL

Below the result grid is a table titled 'Action Output' showing the execution details. It has columns: Action, Time, Response, and Duration / Fetch Time. Three rows are shown: 1. CREATE TABLE cancellation( pnr\_no BIGINT PRIMARY KEY, ... ) took 0.011 sec. 2. INSERT INTO cancellation VALUES (6783, '2022-11-25', 23, 8887772355), ... took 0.0064 sec. 3. SELECT \* FROM cancellation LIMIT 0, 1000 took 0.00052 sec / 0.0000... .

Action	Time	Response	Duration / Fetch Time
CREATE TABLE cancellation( pnr_no BIGINT PRIMARY KEY, ... )	22:59:08	0 row(s) affected	0.011 sec
INSERT INTO cancellation VALUES (6783, '2022-11-25', 23, 8887772355), ...	22:59:49	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.0064 sec
SELECT * FROM cancellation LIMIT 0, 1000	23:00:01	7 row(s) returned	0.00052 sec / 0.0000...

## **Actions to perform -**

### **1) Add information of City in passenger table.**

#### **Query -**

```
ALTER TABLE passenger ADD city varchar(20) DEFAULT 'Mumbai';
UPDATE passenger SET city = 'Palghar' WHERE pnr_no IN(1234, 2321, 8873);
SELECT * FROM passenger;
```

#### **Output -**

The screenshot shows the MySQL Workbench interface. At the top, there is a code editor window displaying the following SQL statements:

```
93
94 • ALTER TABLE passenger ADD city varchar(20) DEFAULT 'Mumbai';
95 • UPDATE passenger SET city = 'Palghar' WHERE pnr_no IN(1234, 2321, 8873);
96 • SELECT * FROM passenger;
97
98
99 • INSERT INTO passenger VALUES(189, 8293877390, 'Ryan', 32, 'male', 9238923949);
```

Below the code editor is a Result Grid pane showing the data from the passenger table:

pnr_no	ticket_no	name	age	sex	contact_no	city
189	8293877390	Ryan	32	male	9238923949	Mumbai
1234	9889239405	Mark	20	male	8985345882	Palghar
2321	9889483847	Samuel	19	male	9923454388	Palghar
6783	9828592949	John	25	male	8887772355	Mumbai
8236	8293877327	Jemima	57	female	7238572384	Mumbai
8873	9934598549	Martha	35	female	8985345882	Palghar
8932	88345884898	Jane	17	female	9923454388	Mumbai
43532	9934598549	Mina	28	female	8482852972	Mumbai
HULL	HULL	HULL	HULL	HULL	HULL	HULL

At the bottom of the interface, there is an Action Output pane showing the history of the executed queries:

Action	Time	Action	Response	Duration / Fetch Time
1	23:27:19	ALTER TABLE passenger ADD city varchar(20) DEFAULT 'Mumbai'	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.00089 sec
2	23:27:20	SELECT * FROM passenger LIMIT 0, 1000	8 row(s) returned	0.00059 sec / 0.000...
3	23:28:54	UPDATE passenger SET city = 'Palghar' WHERE pnr_no IN(1234,...	3 row(s) affected Rows matched: 3 Changed: 3 Warnings: 0	0.0039 sec
4	23:28:55	SELECT * FROM passenger LIMIT 0, 1000	8 row(s) returned	0.00062 sec / 0.000...

### **2) Delete the information of passenger having PNR NO is 189.**

#### **Query -**

```
DELETE FROM passenger WHERE pnr_no = 189;
SELECT * FROM passenger;
```

## Output -

```
142
143
144 • DELETE FROM passenger WHERE pnr_no = 189;
145 • SELECT * FROM passenger;
146
147
100% 24:145 |
```

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor Field Types

pnr_no	ticket_no	name	age	sex	contact_no	city
1234	9889239405	Mark	20	male	8985345882	Palghar
2321	9889483847	Samuel	19	male	9923454388	Palghar
6783	9828592949	John	25	male	8887772355	Mumbai
8238	8293877327	Jemima	57	female	7238572384	Mumbai
8873	9934598549	Martha	35	female	8985345882	Palghar
8932	88345884898	Jane	17	female	9923454388	Mumbai
43532	9934598549	Mina	28	female	8482852972	Mumbai
HULL	HULL	HULL	HULL	HULL	HULL	HULL

passenger 27

Action Output

Time	Action	Response	Duration / Fetch Time
3 23:28:54	UPDATE passenger SET city = 'Palghar' WHERE pnr_no IN(1234,...)	3 row(s) affected Rows matched: 3 Changed: 3 Warnings: 0	0.0039 sec
4 23:28:55	SELECT * FROM passenger LIMIT 0, 1000	8 row(s) returned	0.00062 sec / 0.0000...
5 23:30:43	DELETE FROM passenger WHERE pnr_no = 189	1 row(s) affected	0.0031 sec
6 23:30:51	SELECT * FROM passenger LIMIT 0, 1000	7 row(s) returned	0.00052 sec / 0.0000...

Apply Revert

### 3) Display information of all Female passenger having age > 20

#### Query -

```
SELECT * FROM passenger WHERE sex = 'female' AND age > 20;
```

#### Output -

```
111
112 • SELECT * FROM passenger WHERE sex = 'female' AND age > 20;
113
114
100% 1:108 |
```

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid Form Editor Field Types

pnr_no	ticket_no	name	age	sex	contact_no	city
8238	8293877327	Jemima	57	female	7238572384	Mumbai
8873	9934598549	Martha	35	female	8985345882	Palghar
43532	9934598549	Mina	28	female	8482852972	Mumbai
HULL	HULL	HULL	HULL	HULL	HULL	HULL

passenger 28

### 4) Delete all entry from ticket table.

#### Query -

```
TRUNCATE TABLE passenger;
```

```
SET FOREIGN_KEY_CHECKS = 0;
```

```
TRUNCATE TABLE ticket;
```

```
SET FOREIGN_KEY_CHECKS = 1;
```

```
SELECT * FROM ticket;
```

## Output -

```
135
136 • TRUNCATE TABLE passenger;
137
138 • SET FOREIGN_KEY_CHECKS = 0;
139 • TRUNCATE TABLE ticket;
140 • SET FOREIGN_KEY_CHECKS = 1;
141 • SELECT * FROM ticket;
142
100% 1:143
```

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid

ticket_no	journey_date	age	sex	source_station	destination	dep_time	bus_no
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

ticket 30

Action Output

Time	Action	Response	Duration / Fetch Time
11 23:34:00	SET FOREIGN_KEY_CHECKS = 0	0 row(s) affected	0.00016 sec
12 23:34:01	TRUNCATE TABLE ticket	0 row(s) affected	0.015 sec
13 23:34:02	SET FOREIGN_KEY_CHECKS = 1	0 row(s) affected	0.00027 sec
14 23:34:03	SELECT * FROM ticket LIMIT 0, 1000	0 row(s) returned	0.0019 sec / 0.0001...

## 5) Update Name of passenger to “Rohan” having PNR No is 6783.

### Query -

```
UPDATE passenger SET name = 'Rohan' WHERE pnr_no = 6783;
```

```
SELECT * FROM passenger;
```

## Output -

```
146
147
148 • UPDATE passenger SET name = 'Rohan' WHERE pnr_no = 6783;
149 • SELECT * FROM passenger;
```

Result Grid Filter Rows: Search Edit: Export/Import: Result Grid

pnr_no	ticket_no	name	age	sex	contact_no	city
1234	9889239405	Mark	20	male	8985345682	Palghar
2321	9889483847	Samuel	19	male	9923454388	Palghar
6783	9828592949	Rohan	25	male	8887772355	Mumbai
8238	8293877327	Jemima	57	female	7238572384	Mumbai
8873	9934598549	Martha	35	female	8985345682	Palghar
8932	88345884898	Jane	17	female	9923454388	Mumbai
43532	9934598549	Mina	28	female	8482852972	Mumbai
NULL	NULL	NULL	NULL	NULL	NULL	NULL

passenger 29

Action Output

Time	Action	Response	Duration / Fetch Time
6 23:30:51	SELECT * FROM passenger LIMIT 0, 1000	/ row(s) returned	0.000052 sec / 0.0000...
7 23:31:48	SELECT * FROM passenger WHERE sex = 'female' AND age > 20...	3 row(s) returned	0.0017 sec / 0.0002...
8 23:32:41	UPDATE passenger SET name = 'Rohan' WHERE pnr_no = 6783	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.0041 sec
9 23:32:42	SELECT * FROM passenger LIMIT 0, 1000	7 row(s) returned	0.00068 sec / 0.000...

**All SQL queries:**

```
CREATE DATABASE clg;  
USE clg;
```

```
CREATE TABLE bus (  
    bus_no varchar(10) PRIMARY KEY,  
    source_station varchar(20) NOT NULL,  
    destination varchar(20) NOT NULL,  
    couch_type varchar(20) DEFAULT 'Seater'  
);
```

```
INSERT INTO bus VALUES('C-71', 'Oberoi Mall', 'Azad nagar', 'Sleeper');  
INSERT INTO bus (bus_no, source_station, destination) VALUES('A-254', 'Andheri station', 'Versova');  
INSERT INTO bus VALUES  
('25', 'Ram nagar', 'SVSU garden', 'Seater'),  
('A-167', 'Vile parle West', 'Tanaji nagar', 'Seater'),  
('645', 'Hub mall', 'SKVM', 'Seater'),  
('461', 'Borivali station', 'MB mart', 'Seater'),  
('A-56', 'SRP camp', 'Kurar village', 'Sleeper');
```

```
SELECT * FROM bus;
```

```
CREATE TABLE reservation (  
    pnr_no BIGINT PRIMARY KEY,  
    journey_date DATE NOT NULL,  
    no_of_seats INTEGER(9) NOT NULL,  
    address VARCHAR(50),  
    contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),  
    bus_no VARCHAR(10) NOT NULL,  
    seat_no INT NOT NULL,  
    FOREIGN KEY (bus_no) REFERENCES bus(bus_no)  
);
```

```
INSERT INTO reservation VALUES (6783, '2022-11-25', 2, 'SRP CAMP rajendra nagar, Borivali West', 8887772355, 'A-56', 23);
```

```
INSERT INTO reservation VALUES (189, '2022-11-28', 3, 'azad nagar, Borivali West', 8328895926, 'A-56', 23);
```

```
INSERT INTO reservation VALUES
```

```
(8932, '2022-11-21', 1, 'Thakur complex, Kandivali', 9923454388, 'A-254', 42),
```

```
(8873, '2022-12-5', 4, 'Thakur complex, Malad', 8985345882, 'A-254', 32),
```

```
(8238, '2022-11-21', 3, 'Ram nagar, Andheri', 7238572384, 'A-254', 9),
```

```
(2321, '2022-12-29', 5, 'SG campus', 9923454388, 'A-167', 26),
```

```
(1234, '2022-12-5', 4, 'Shivaji nagar', 8985345882, '25', 9),
```

```
(43532, '2022-11-30', 1, 'Tanaji nagar, malad', 8482852972, '461', 2);
```

```
SELECT * FROM reservation;
```

```
CREATE TABLE ticket (
```

```
    ticket_no BIGINT PRIMARY KEY,
```

```
    journey_date DATE NOT NULL,
```

```
    age INT(4) NOT NULL,
```

```
    sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'),
```

```
    source_station VARCHAR(20) NOT NULL,
```

```
    destination VARCHAR(20) NOT NULL,
```

```
    dep_time VARCHAR(10) NOT NULL,
```

```
    bus_no VARCHAR(10) NOT NULL,
```

```
    FOREIGN KEY(bus_no) REFERENCES bus(bus_no)
```

```
);
```

```
INSERT INTO ticket VALUES(9828592949, '2022-12-22', 25, 'male', 'Hub mall', 'Kurar village', '10:25 am', '645');
```

```
INSERT INTO ticket VALUES(8293877390, '2022-12-15', 26, 'female', 'azad nagar', 'SRP camp', '9:18 am', 'A-56');
```

```
INSERT INTO ticket VALUES
```

```
(9348734798, '2022-12-22', 16, 'male', 'GT nagar', 'Azad nagar', '12:25 pm', 'C-71'),
```

```
(88345884898, '2022-12-18', 17, 'female', 'SKVM', 'Pravin SD', '8:45 am', '461'),
```

```
(9934598549, '2022-12-22', 28, 'female', 'Shiv mandir', 'Tilak nagar', '9:20 pm', '645'),
```

```
(9889483847, '2022-12-22', 19, 'male', 'Rajendra nagar', 'Kurar village', '11:10 am', 'A-167'),
```

```
(9889239405, '2022-12-22', 19, 'female', 'GTS', 'SKVM', '7:56 pm', '25'),  
(8293877327, '2022-12-22', 57, 'female', 'SGT', 'SRP camp', '8:20 am', 'A-56'),  
(9889138984, '2022-12-22', 45, 'female', 'JB nagar', 'Andheri', '9:11 am', 'A-254');
```

```
SELECT * FROM ticket;
```

```
CREATE TABLE passenger(  
    pnr_no BIGINT PRIMARY KEY,  
    ticket_no BIGINT,  
    name VARCHAR(15),  
    age INT(4) NOT NULL,  
    sex CHAR(10) DEFAULT 'male' CHECK(sex = 'male' OR sex = 'female'),  
    contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),  
    FOREIGN KEY(ticket_no) REFERENCES ticket(ticket_no),  
    FOREIGN KEY(pnr_no) REFERENCES reservation(pnr_no)  
);
```

```
INSERT INTO passenger VALUES(189, 8293877390, 'Ryan', 32, 'male', 9238923949);
```

```
INSERT INTO passenger VALUES  
(6783, 9828592949, 'John', 25, 'male', 8887772355),  
(8932, 88345884898, 'Jane', 17, 'female', 9923454388),  
(43532, 9934598549, 'Mina', 28, 'female', 8482852972),  
(1234, 9889239405, 'Mark', 20, 'male', 8985345882),  
(8873, 9934598549, 'Martha', 35, 'female', 8985345882),  
(8238, 8293877327, 'Jemima', 57, 'female', 7238572384),  
(2321, 9889483847, 'Samuel', 19, 'male', 9923454388);
```

```
SELECT * FROM passenger;
```

```
CREATE TABLE cancellation(  
    pnr_no BIGINT PRIMARY KEY,  
    journey_date DATE NOT NULL,  
    seat_no INT NOT NULL,  
    contact_no BIGINT CHECK(contact_no >= 1000000000 AND contact_no <= 9999999999),
```

```
FOREIGN KEY(pnr_no) REFERENCES reservation(pnr_no)
);
```

```
INSERT INTO cancellation VALUES
(6783, '2022-11-25', 23, 8887772355),
(8932, '2022-11-21', 42, 9923454388),
(43532, '2022-11-30', 2, 8482852972),
(1234, '2022-12-5', 9, 8985345882),
(8873, '2022-12-5', 32, 8985345882),
(8238, '2022-11-21', 32, 7238572384),
(2321, '2022-12-29', 26, 9923454388);
```

```
SELECT * FROM cancellation;
```

```
ALTER TABLE passenger ADD city varchar(20) DEFAULT 'Mumbai';
UPDATE passenger SET city = 'Palghar' WHERE pnr_no IN(1234, 2321, 8873);
SELECT * FROM passenger;
```

```
DELETE FROM passenger WHERE pnr_no = 189;
SELECT * FROM passenger;
```

```
SELECT * FROM passenger WHERE sex = 'female' AND age > 20;
```

```
TRUNCATE TABLE passenger;
SET FOREIGN_KEY_CHECKS = 0;
TRUNCATE TABLE ticket;
SET FOREIGN_KEY_CHECKS = 1;
```

```
SELECT * FROM ticket;
```

```
UPDATE passenger SET name = 'Rohan' WHERE pnr_no = 6783;
```

```
SELECT * FROM passenger;
```

**Conclusion:**

**In this experiment, we performed DDL commands like CREATE and UPDATE Table to define/modify our schema and inserted sample data as per the defined relations**