

# *2CS402 - DATABASE MANAGEMENT SYSTEM*

## *INNOVATIVE ASSIGNMENT*

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### *Introduction : Bus Travel - Management System*

This Management system helps to maintain details of Working Drivers, their Managers, Buses registered under the Travel Corporation , Passenger details , Passenger's booking details , travel routes and Journey details of the in-service buses. It helps to override the problems prevailing in the practicing manual system. This project aims to simplify the task of maintaining and filtering records of the above specified detail items in the Travel Corporation.

### *Table Details :*

Driver-Details Table: - Keeps the record of all the Drivers i.e. their Driver-id, name, phone-number, salary, DOB, Hire-Date, Manager-ID, rating and Assigned Bus-ID.

Manager-Details Table: - Keeps the record of all the Driver-Managers i.e. their Manager-id, name, phone-number, DOB, Hire-Date and number - of - sub-workers.

Bus-details Table: - Keeps the record of all the Buses inservice under the Travel Corporation and this table consists entities such as Bus-ID , bus-type , ac/non-ac type, seat-strength, owner-registration details and bus' Lease Status.

Garage-details Table: - Keeps the record of Assigned garages to the Buses i.e., Garage-ID, Bus-ID, name and Address.

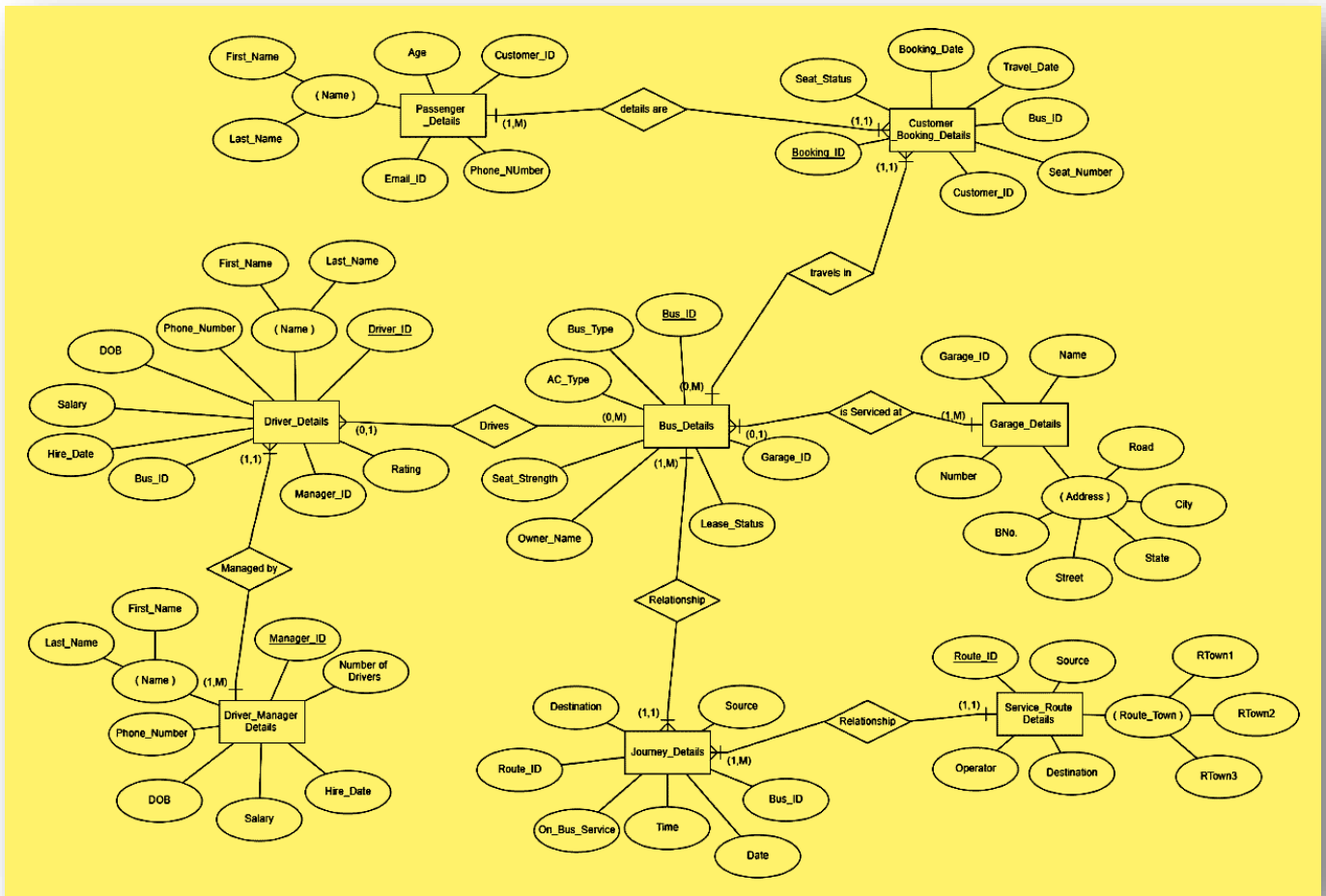
Journey-details Table: - Keeps the record of all Assigned-Bus-Journey i.e., Journey-ID, Source , Destination , Journey Date , Bus-Time , status of On-Bus-Service , Bus-ID and Route-ID.

Service-Route-details Table: - Keeps the record of specific-details of the route for the In-service Bus i.e., Route-ID , source-town , route-town1 , route-town2 , route-town3 , destination and Operator.

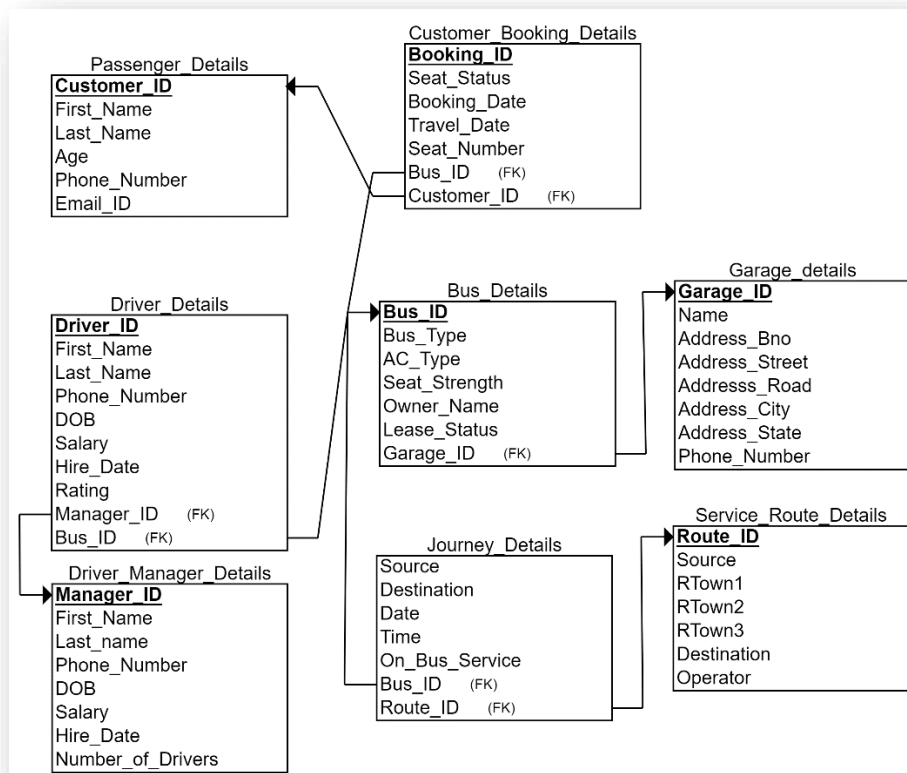
Passenger-details Table: - Keeps the record of passenger-details i.e., Passenger-Name, Passenger Age, Passenger-Phone-Number , Passenger email-id and Passenger - Customer-ID.

Customer-Booking-Details Table: - Keeps the record of details of Customer - Bookings i.e., Booking-ID, Seat-Status, Booking-Date, Travel-Date, Journey-ID, Seat Number and Customer-ID.

## ER - Model



## Relational Model



# Table Driver-Details

```
CREATE TABLE driver_details
( driver_id          VARCHAR2(5) PRIMARY KEY CHECK(driver_id like 'D%') NOT NULL,
  name              VARCHAR2(20) NOT NULL,
  phone_number      NUMBER(10),
  DOB              DATE NOT NULL,
  salary            NUMBER(5),
  hire_date         DATE NOT NULL,
  manager_id        VARCHAR2(5) CHECK(manager_id like 'M%'),
  rating            NUMBER(1) CHECK(rating<=5),
  assigned_bus_id   VARCHAR2(5) CHECK(assigned_bus_id like 'B%'),
  CONSTRAINT dd_fk
  FOREIGN KEY(manager_id) REFERENCES manager_details(manager_id),
  FOREIGN KEY(assigned_bus_id) REFERENCES bus_details(bus_id) ON DELETE SET NULL
);
```

```
SQL> select * from driver_details;
```

DRIVE	NAME	PHONE_NUMBER	DOB	SALARY	HIRE_DATE	MANAG	RATING	ASSIG
D01	Karli Jones	1632051165	25-JAN-86	15000	15-MAR-01	M01	4	B01
D02	Sator Kallis	9046506528	15-MAY-90	16000	12-MAY-02	M01	4	B03
D03	Bellis Hay	5056918688	21-OCT-89	15000	27-APR-05	M01	4	B02
D04	Will Collins	2186642983	31-DEC-84	14000	13-JAN-03	M01	3	B04
D05	Harry Kares	9682651565	05-JUL-89	15000	19-JAN-03	M02	3	B05
D06	Winston Kal	9946596929	16-AUG-90	15000	11-MAR-01	M02	4	B06
D07	Ben Foley	9326911689	20-OCT-81	14000	07-JAN-02	M02	4	B07
D08	Ani Willis	9996688983	01-JAN-80	16000	12-NOV-02	M02	4	B08
D09	Justin Achola	8732651165	12-APR-86	14000	10-NOV-02	M03	4	B09
D10	Zach Jensen	9111506528	13-JUL-82	15000	27-MAY-01	M03	4	B10
D11	Clay Jensen	9096942088	01-NOV-80	16000	30-JAN-02	M03	4	B11
D12	John Davis	9916645583	29-JAN-81	16000	01-NOV-01	M03	4	B12
D13	Bryce Williams	8932781165	20-FEB-80	15000	05-SEP-02	M04	4	B01
D14	Joey Baker	9786911528	11-JUL-87	18000	21-DEC-03	M04	3	B02
D15	Jays Walker	9786518989	01-DEC-80	16000	20-DEC-02	M04	4	B03
D16	Munis Waller	9175342083	14-OCT-79	15000	25-DEC-07	M04	3	B04

16 rows selected.

# Table Manager-Details

```
CREATE TABLE manager_details
( manager_id        VARCHAR2(5) PRIMARY KEY CHECK(manager_id like 'M%') NOT NULL,
  name              VARCHAR2(20) NOT NULL,
  phone_number      NUMBER(10),
  DOB              DATE NOT NULL,
  hire_date         DATE NOT NULL,
  sub_workers       NUMBER(2)
);
```

```
SQL> select * from manager_details;
```

MANAG	NAME	PHONE_NUMBER	DOB	HIRE_DATE	SUB_WORKERS
M01	Harry Jones	1632051165	25-JAN-86	15-MAR-01	4
M02	Jen Kallis	9046506528	15-MAY-90	17-MAR-01	4
M03	Ben Haywire	5056918688	21-SEP-89	27-FEB-02	4
M04	Collins Willis	2186642983	31-DEC-85	15-NOV-01	3

# Table Bus-Details

```
CREATE TABLE bus_details
( bus_id          VARCHAR2(5) PRIMARY KEY CHECK(bus_id like 'B%') NOT NULL,
  bus_type        VARCHAR2(9) CHECK(bus_type in ('seater','sleeper')) NOT NULL,
  ac_nonac        VARCHAR2(6) CHECK(ac_nonac in ('ac','non-ac')) NOT NULL,
  seat_strength   NUMBER(2) NOT NULL,
  owner_reg       VARCHAR2(6) NOT NULL,
  lease_status    VARCHAR2(10)
);
```

```
SQL> select * from bus_details;
```

BUS_I	BUS_TYPE	AC_NON	SEAT_STRENGTH	OWNER_	LEASE_STAT
B01	seater	ac	42	GJ4895	leased
B02	seater	ac	42	GJ6197	leased
B03	seater	ac	42	GJ6138	leased
B04	seater	non-ac	42	GJ3125	not leased
B05	seater	non-ac	42	GJ8873	not leased
B06	seater	non-ac	42	GJ1123	not leased
B07	sleeper	ac	42	GJ2255	leased
B08	sleeper	ac	42	GJ3333	leased
B09	sleeper	ac	42	GJ8305	leased
B10	sleeper	non-ac	42	GJ8305	not leased
B11	sleeper	non-ac	42	GJ4692	not leased
BUS_I	BUS_TYPE	AC_NON	SEAT_STRENGTH	OWNER_	LEASE_STAT
B12	sleeper	non-ac	42	GJ2182	not leased

12 rows selected.

# Table Garage-Details

```
CREATE TABLE garage_details
( garage_id       VARCHAR2(5) PRIMARY KEY CHECK(garage_id like 'G%'),
  bus_id          VARCHAR2(5) CHECK(bus_id like 'B%'),
  name            VARCHAR2(40) NOT NULL,
  address         VARCHAR2(120),
  CONSTRAINT gd_fk
  FOREIGN KEY(bus_id) REFERENCES bus_details(bus_id) ON DELETE SET NULL
);
```

```
SQL> select * from garage_details;
```

GARAG	BUS_I	NAME	ADDRESS
611	B01	Wiser Automotives	Ground Floor, Tushar Complex, Waghodia, Vadodara, Gujarat
612	B02	Wiser Automotives	Ground Floor, Tushar Complex, Waghodia, Vadodara, Gujarat
621	B03	Pfizer Repair Works	GF-1 Repair Works, Opposite BNC Office , Kandivali, Mumbai , Maharashtra
631	B04	Walker Works	GF-3 Gajendra Building, Besides HOF Office Building-1, Jaipur, Rajasthan
641	B05	Winston Works for Vehicles	GF-3 Hanistan Complex, Besides SBI Main Office, Paldi, Ahmedabad, Gujarat
642	B06	Winston Works for Vehicles	GF-3 Hanistan Complex, Besides SBI Main Office, Paldi, Ahmedabad, Gujarat
643	B07	Winston Works for Vehicles	GF-3 Hanistan Complex, Besides SBI Main Office, Paldi, Ahmedabad, Gujarat
651	B08	Broline Motor Works	Rakoom Complex, Besides SBI Main Office, Bharuch, Gujarat
652	B09	Broline Motor Works	Rakoom Complex, Besides SBI Main Office, Bharuch, Gujarat
661	B10	Westminster Repair Works	GF-3 Garud Building, Besides LIC Office Building-1, North-Noida , Delhi
662	B11	Westminster Repair Works	GF-3 Garud Building, Besides LIC Office Building-1, North-Noida , Delhi
GARAG	BUS_I	NAME	ADDRESS
671	B12	Wastran Repair Works	Jatayu Building, Besides St.Xavier Office, North-Panji , Goa

12 rows selected.

# Table Journey-Details

```
CREATE TABLE journey_details
(
  journey_id          VARCHAR2(5) PRIMARY KEY CHECK(journey_id like 'J%'),
  source              VARCHAR2(20) NOT NULL,
  destination         VARCHAR2(20) NOT NULL,
  jddate              DATE NOT NULL,
  ttime               TIMESTAMP NOT NULL,
  on_bus_service      VARCHAR2(10) CHECK(on_bus_service IN (NULL,'yes','no')),
  bus_id              VARCHAR2(5) CHECK(bus_id like 'B%') NOT NULL,
  route_id            VARCHAR2(5) CHECK(route_id like 'R%'),
  CONSTRAINT jd_fk
  FOREIGN KEY(route_id) REFERENCES service_route_details(route_id),
  FOREIGN KEY(bus_id) REFERENCES bus_details(bus_id) ON DELETE SET NULL
);
Total Records : 240
```

SQL> select \* from journey\_details;

JOURN	SOURCE	DESTINATION	JDDATE	TTIME	ON_BUS_SER	BUS_I	ROUTE
J001	VADODARA	AHMEDABAD	05-JUL-19	05-JUL-19 06:38:00.000000 AM	no	B01	R41
J002	VADODARA	AHMEDABAD	05-JUL-19	05-JUL-19 10:38:00.000000 AM	no	B01	R42
J003	VADODARA	AHMEDABAD	05-JUL-19	05-JUL-19 02:08:00.000000 PM	no	B01	R43
J004	VADODARA	AHMEDABAD	05-JUL-19	05-JUL-19 06:38:00.000000 PM	no	B01	R44
J005	VADODARA	AHMEDABAD	06-JUL-19	06-JUL-19 06:00:00.000000 AM	no	B01	R41
J006	VADODARA	AHMEDABAD	06-JUL-19	06-JUL-19 10:38:00.000000 AM	no	B01	R42
J007	VADODARA	AHMEDABAD	06-JUL-19	06-JUL-19 02:45:00.000000 PM	no	B01	R43
J008	VADODARA	AHMEDABAD	06-JUL-19	06-JUL-19 06:38:00.000000 PM	no	B01	R44
J009	VADODARA	AHMEDABAD	07-JUL-19	07-JUL-19 05:08:00.000000 AM	no	B01	R41
J010	VADODARA	AHMEDABAD	07-JUL-19	07-JUL-19 09:38:00.000000 AM	no	B01	R42
J011	VADODARA	AHMEDABAD	07-JUL-19	07-JUL-19 01:38:00.000000 PM	no	B01	R43
J012	VADODARA	AHMEDABAD	07-JUL-19	07-JUL-19 05:38:00.000000 PM	no	B01	R44
J013	VADODARA	AHMEDABAD	08-JUL-19	08-JUL-19 05:38:00.000000 AM	no	B01	R41
J014	VADODARA	AHMEDABAD	08-JUL-19	08-JUL-19 09:38:00.000000 AM	no	B01	R42
J015	VADODARA	AHMEDABAD	08-JUL-19	08-JUL-19 01:38:00.000000 PM	no	B01	R43
J016	VADODARA	AHMEDABAD	08-JUL-19	08-JUL-19 07:38:00.000000 PM	no	B01	R44
J017	VADODARA	AHMEDABAD	09-JUL-19	09-JUL-19 05:38:00.000000 AM	no	B01	R41
J018	VADODARA	AHMEDABAD	09-JUL-19	09-JUL-19 09:38:00.000000 AM	no	B01	R42
J019	VADODARA	AHMEDABAD	09-JUL-19	09-JUL-19 01:38:00.000000 PM	no	B01	R43
J020	VADODARA	AHMEDABAD	09-JUL-19	09-JUL-19 05:38:00.000000 PM	no	B01	R44
J021	BHARUCH	VADODARA	05-JUL-19	05-JUL-19 06:00:00.000000 AM	no	B02	R61
J022	BHARUCH	VADODARA	05-JUL-19	05-JUL-19 10:00:00.000000 AM	no	B02	R62
J023	BHARUCH	VADODARA	05-JUL-19	05-JUL-19 02:00:00.000000 PM	no	B02	R63
J024	BHARUCH	VADODARA	05-JUL-19	05-JUL-19 06:38:00.000000 PM	no	B02	R64
J025	BHARUCH	VADODARA	06-JUL-19	06-JUL-19 06:00:00.000000 AM	no	B02	R65
J026	BHARUCH	VADODARA	06-JUL-19	06-JUL-19 09:38:00.000000 AM	no	B02	R66
J027	BHARUCH	VADODARA	06-JUL-19	06-JUL-19 02:45:00.000000 PM	no	B02	R67

# Table Service-Route-Details

```
CREATE TABLE service_route_details
(
  route_id          VARCHAR2(5) PRIMARY KEY CHECK(route_id like 'R%'),
  source_town       VARCHAR2(20) NOT NULL,
  route_town1       VARCHAR2(30),
  route_town2       VARCHAR2(30),
  route_town3       VARCHAR2(30),
  destination       VARCHAR2(30),
  operator          VARCHAR2(30) NOT NULL
);
Total Records: 78
```



```
SQL> select * from service_route_details;
```

ROUTE	SOURCE_TOWN	ROUTE_TOWN1	ROUTE_TOWN2	ROUTE_TOWN3	DESTINATION	OPERATOR
R01	Surat	Bharuch	Ankleshwar	Vadodara	Ahmedabad	AMTS
R02	Surat			Vadodara	Ahmedabad	AMTS
R03	Surat		Ankleshwar		Ahmedabad	AMTS
R04	Surat	Bharuch			Ahmedabad	AMTS
R05	Surat				Ahmedabad	AMTS
R06	Surat	Bharuch		Vadodara	Ahmedabad	AMTS
R07	Surat		Ankleshwar	Vadodara	Ahmedabad	AMTS
R08	Surat	Bharuch	Ankleshwar		Ahmedabad	AMTS
R09	Rajkot	Sayla	Limbd1	Changodar	Ahmedabad	AMTS
R10	Rajkot				Ahmedabad	AMTS
R11	Rajkot	Sayla			Ahmedabad	AMTS
R12	Rajkot		Limbd1		Ahmedabad	AMTS
R13	Rajkot			Changodar	Ahmedabad	AMTS
R14	Rajkot	Sayla	Limbd1		Ahmedabad	AMTS
R15	Rajkot		Limbd1	Changodar	Ahmedabad	AMTS
R16	Rajkot	Sayla		Changodar	Ahmedabad	AMTS
R17	Dehli	Malpura	Jaipur	Udaipur	Ahmedabad	AMTS
R18	Dehli				Ahmedabad	AMTS
R19	Dehli		Jaipur	Udaipur	Ahmedabad	AMTS
R20	Dehli	Malpura		Udaipur	Ahmedabad	AMTS
R21	Dehli	Malpura	Jaipur		Ahmedabad	AMTS
R22	Dehli	Malpura			Ahmedabad	AMTS
R23	Dehli		Jaipur		Ahmedabad	AMTS
R24	Dehli			Udaipur	Ahmedabad	AMTS
R25	Dehli	Sasrnt	Kurukshetra	Chandigarh	Shimla	AMTS

# Table Passenger-Details

CREATE TABLE passenger\_details

```
( name          VARCHAR2(40) NOT NULL,
  age           VARCHAR2(3) NOT NULL,
  phone_number  NUMBER(10) NOT NULL,
  email_id      VARCHAR2(20),
  customer_id   VARCHAR2(5) PRIMARY KEY CHECK(customer_id like 'C%')
);
```

Total Records : 38

```
SQL> select * from passenger_details;
```

NAME	AGE	PHONE_NUMBER	EMAIL_ID	CUSTO
Jamie Vardy	22	3692029666	lakoy82627@cnxingye.com	C01
Adam Traore	28	3381358905	xmickojalt@kirain.me	C02
Sandi Malls	42	1564337985	xchom@findoasis.com	C03
Trent Arnold	32	5485949405	raldzjr@halumail.com	C04
Mike Forgo	18	5934710388	000020@merliaz.xyz	C05
Gabriel Foden	25	9698291115	0ismail.sport.904funpedia.com	C06
Phil Kevin	52	2265315320	7sajad15986r@sysyl444.com	C07
Eion Morgan	46	1298973395	dloussa@namtruong318.com	C08
David Willis	43	9982350680	ifares2@shutenk-shop.com	C09
Hugh Jackman	29	8809966936	bilal@bluwurmind234.tk	C10
Genny Ollins	29	9357843930	snasr-2014m@24mail.top	C11
George Weah	49	4668960411	0lolo_lola2010858@popichai.com	C12
Gill Dennis	35	7180193947	nmedotiger916@blesscup.cf	C13
Fred Jinnings	51	6057381289	nmedotiger916@blesscup.cf	C14
Phoeb Kevin	26	2265532012	asdjad15986r@sysyl444.com	C15
Eion Morner	16	9598973395	dlayas@namtruong318.com	C16
Rita Wallis	43	9382930680	ifares2@shutenk-shop.com	C17
Hugli Jackler	29	8839966936	bilayag@bluwurmind234.tk	C18
Genny Ollins	29	938753930	snasyadd2014m@24mail.top	C19
George Wovey	49	9876960411	ololoisse_lola2010858@popichai.com	C20
Gill Dennis	35	9464193947	nmedotiger916@blesscup.cf	C21
Fred Jinnings	51	9443381289	lucicholoe916@blesscup.cf	C22
Phineas Kevester	59	9005315320	kevstar153216r@gmail.com	C23
Kallis Morgan	41	9090973395	kmorgan@yahoo.com	C24
Dave Williamson	48	9121350680	dwillg@shop.com	C25
Hugh Caprio	22	9911966936	hcaprio@bluwind123456.tk	C26
Gen Jokstar	25	9234843930	henjokstar@kommail.top	C27
George Wheatley	41	9434960411	hwheatley@popichai.com	C28
Gilliam Dennistar	31	9023453947	gdenniss916@blesscup.cf	C29
Fredling Jlingis	55	9900380089	frdrling@blesscup.cf	C30
Ferb Kevlos	66	2265315320	7sajad15986r@sysyl444.com	C31
Morgan Ellis	65	1298973395	dloussa@namtruong318.com	C32
David Decker	34	9982350680	ifares2@shutenk-shop.com	C33
Jack Morris	22	8809966936	bilal@bluwurmind234.tk	C34
Genny Oliver	49	9357843930	snasr-2014m@24mail.top	C35
Gerill Johnson	19	4668960411	0lolo_lola2010858@popichai.com	C36
Den Gillings	33	7180193947	nmedotiger916@blesscup.cf	C37
Fredrick Willing	58	6057381289	nmedotiger916@blesscup.cf	C38

38 rows selected.

# Table Customer-Booking-Details

```
CREATE TABLE customer_booking_details
( booking_id      VARCHAR2(6) PRIMARY KEY CHECK(booking_id like 'BO%'),
  seat_status     VARCHAR2(9) CHECK(seat_status in('confirmed','cancelled')) NOT NULL,
  booking_date    DATE NOT NULL,
  travel_date     DATE NOT NULL,
  journey_id      VARCHAR2(5) CHECK(journey_id like 'J%'),
  seat_num        NUMBER(2) NOT NULL,
  customer_id     VARCHAR2(5) CHECK(customer_id like 'C%'),
  CONSTRAINT cbd_fk
  FOREIGN KEY(journey_id) REFERENCES journey_details(journey_id),
  FOREIGN KEY(customer_id) REFERENCES passenger_details(customer_id) ON DELETE SET NULL
);
```

```
SQL> select * from customer_booking_details;
```

BOOKIN	SEAT_STAT	BOOKING_D	TRAVEL_DA	JOURN	SEAT_NUM	CUSTO
BO01	confirmed	03-JUL-19	05-JUL-19	J21	21	C01
BO02	confirmed	03-JUL-19	05-JUL-19	J21	22	C02
BO03	confirmed	03-JUL-19	05-JUL-19	J21	23	C03
BO04	confirmed	03-JUL-19	05-JUL-19	J21	24	C04
BO05	confirmed	03-JUL-19	05-JUL-19	J21	25	C05
BO06	confirmed	03-JUL-19	05-JUL-19	J21	26	C06
BO07	confirmed	03-JUL-19	05-JUL-19	J21	27	C07
BO08	confirmed	03-JUL-19	05-JUL-19	J21	28	C08
BO09	confirmed	03-JUL-19	05-JUL-19	J21	29	C09
BO10	confirmed	01-JUL-19	05-JUL-19	J21	30	C10
BO11	confirmed	01-JUL-19	05-JUL-19	J21	31	C11
BO12	confirmed	01-JUL-19	05-JUL-19	J21	32	C12
BO13	confirmed	01-JUL-19	05-JUL-19	J21	33	C13
BO14	confirmed	01-JUL-19	05-JUL-19	J21	34	C14
BO15	confirmed	01-JUL-19	05-JUL-19	J21	1	C15
BO16	confirmed	01-JUL-19	05-JUL-19	J21	2	C16
BO17	confirmed	03-JUL-19	05-JUL-19	J21	3	C17
BO18	confirmed	03-JUL-19	05-JUL-19	J21	4	C18
BO19	confirmed	03-JUL-19	05-JUL-19	J21	5	C19
BO20	confirmed	03-JUL-19	05-JUL-19	J21	6	C20
BO21	confirmed	03-JUL-19	05-JUL-19	J21	7	C21
BO22	confirmed	03-JUL-19	05-JUL-19	J21	8	C22
BO23	confirmed	03-JUL-19	05-JUL-19	J21	9	C23
BO24	confirmed	03-JUL-19	05-JUL-19	J21	10	C24
BO25	confirmed	03-JUL-19	05-JUL-19	J21	11	C25
BO26	confirmed	28-JUN-19	05-JUL-19	J21	12	C26
BO27	confirmed	04-JUL-19	05-JUL-19	J21	13	C27
BO28	confirmed	04-JUL-19	05-JUL-19	J21	14	C28
BO29	confirmed	04-JUL-19	05-JUL-19	J21	15	C29
BO30	confirmed	04-JUL-19	05-JUL-19	J21	16	C30
BO31	confirmed	04-JUL-19	05-JUL-19	J21	17	C31
BO32	confirmed	04-JUL-19	05-JUL-19	J21	18	C32
BO33	confirmed	04-JUL-19	05-JUL-19	J21	19	C33
BO34	confirmed	01-JUL-19	05-JUL-19	J21	20	C34
BO35	confirmed	02-JUL-19	05-JUL-19	J21	35	C35

# SQL QUERIES

Query-1. List the Buses assigned to a particular journey, Example Source are Bharuch and Delhi.

QUERY : SELECT \* FROM BUS\_DETAILS WHERE BUS\_ID IN (SELECT DISTINCT BUS\_ID FROM JOURNEY\_DETAILS WHERE SOURCE IN ('BHARUCH','DELHI'));

```
BUS_I  BUS_TYPE  AC_NON  SEAT_STRENGTH  OWNER_  LEASE_STAT
-----
B02    seater    ac              42 GJ6197  leased
B07    sleeper   ac              42 GJ2255  leased
B08    sleeper   ac              42 GJ3333  leased
B09    sleeper   ac              42 GJ8305  leased
B10    sleeper   non-ac          42 GJ8305  not leased
B11    sleeper   non-ac          42 GJ4692  not leased

6 rows selected.
```

Query-2. List the Customers taking a particular journey , given Journey-ID = J21 AND Age of Customer is above 50.

QUERY: SELECT PC.NAME , PC.AGE , PC.PHONE\_NUMBER , PC.BOOKING\_ID , PC.SEAT\_STATUS , PC.JOURNEY\_ID,JD.JDDATE JOURNEY\_DATE,JD.TTIME TIME FROM PC INNER JOIN JOURNEY\_DETAILS JD ON PC.JOURNEY\_ID=JD.JOURNEY\_ID WHERE JD.JOURNEY\_ID='J21' and PC.AGE>=50 ORDER BY AGE;

```
NAME                AGE  PHONE_NUMBER  BOOKIN  SEAT_STAT  JOURN  JOURNEY_D  TIME
-----
Fred Jinngs         51   6057381289   B014    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Fred Jinngs         51   9443381289   B022    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Phil Kevin          52   2265315320   B007    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Fredling Jingis     55   9900380089   B030    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Fredrick Willing    58   6057381289   B038    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Phineas Kevester    59   9005315320   B023    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Morgan Ellis        65   1298973395   B032    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM
Ferb Kevlos         66   2265315320   B031    confirmed  J21     05-JUL-19  05-JUL-19  06.00.00.000000 AM

8 rows selected.
```



Query-3. List the Buses assigned to a particular garage, Garage-ID: G11,G21,G42 and G51

```
QUERY : SELECT B.BUS_ID,B.BUS_TYPE,B.AC_NONAC,B.OWNER_REG,G.NAME
GARAGE_NAME,G.GARAGE_ID,G.ADDRESS FROM BUS_DETAILS B JOIN
GARAGE_DETAILS G ON B.BUS_ID=G.BUS_ID WHERE G.GARAGE_ID in
('G11','G21','G42','G51');
```

BUS_I	BUS_TYPE	AC_NON	OWNER_	GARAGE_NAME	GARAG	ADDRESS
B01	seater	ac	GJ4895	Wiser Automotives	G11	Ground Floor, Tushar Complex, Waghodia, Vadodara, Gujarat
B03	seater	ac	GJ6138	Pfizer Repair Works	G21	GF-1 Repair Works, Opposite BMC Office , Kandivali, Mumbai , Maharashtra
B06	seater	non-ac	GJ1123	Winston Works for Vehicles	G42	GF-3 Hanistan Complex, Besides SBI Main Office, Paldi, Ahmedabad, Gujarat
B08	sleeper	ac	GJ3333	Broline Motor Works	G51	Rakoom Complex, Besides SBI Main Office, Bharuch, Gujarat

Query-4. List the drivers and assigned buses on journey to Ahmedabad and Udaipur.

```
QUERY : SELECT DRIVER_ID,NAME,BUS_ID,HIRE_DATE FROM DRIVER_DETAILS D INNER
JOIN JOURNEY_DETAILS ON D.ASSIGNED_BUS_ID = JOURNEY_DETAILS.BUS_ID WHERE
JOURNEY_DETAILS.DESTINATION IN ('AHMEDABAD','UDAIPUR') GROUP BY
DRIVER_ID,NAME,BUS_ID,HIRE_DATE ORDER BY DRIVER_ID;
```

DRIVE	NAME	BUS_I	HIRE_DATE
D01	Karli Jones	B01	15-MAR-01
D04	Will Collins	B04	13-JAN-03
D05	Harry Kares	B05	19-JAN-03
D06	Winston Kal	B06	11-MAR-01
D07	Ben Foley	B07	07-JAN-02
D11	Clay Jensen	B11	30-JAN-02
D12	John Davis	B12	01-NOV-01
D13	Bryce Williams	B01	05-SEP-02
D16	Munis Waller	B04	25-DEC-07

9 rows selected.

Query-5. List the Drivers being managed by Managers M01 and M02.

QUERY : SELECT D1.NAME,D1.DRIVER\_ID,D2.MANAGER\_ID,D2.NAME FROM DRIVER\_DETAILS D1 JOIN MANAGER\_DETAILS D2 ON D1.MANAGER\_ID=D2.MANAGER\_ID WHERE D1.MANAGER\_ID IN('M01','M02');

NAME	DRIVE	MANAG	NAME
Karli Jones	D01	M01	Harry Jones
Sator Kallis	D02	M01	Harry Jones
Bellis Hay	D03	M01	Harry Jones
Will Collins	D04	M01	Harry Jones
Harry Kares	D05	M02	Jen Kallis
Winston Kal	D06	M02	Jen Kallis
Ben Foley	D07	M02	Jen Kallis
Ani Willis	D08	M02	Jen Kallis

8 rows selected.

Query-6. Give the complete passenger details - name plus all their booking details for Customers C10 and C12

QUERY : SELECT \* FROM PASSENGER\_DETAILS NATURAL JOIN CUSTOMER\_BOOKING\_DETAILS WHERE CUSTOMER\_ID IN ('C10','C12') ORDER BY CUSTOMER\_ID;

CUSTO	NAME	AGE	PHONE_NUMBER	EMAIL_ID	BOOKIN	SEAT_STAT	BOOKING_D	TRAVEL_DA	JOURN	SEAT_NUM
C10	Hugh Jackman	29	8809966936	bilal@bluwurmind234.tk	B0124	confirmed	01-JUL-19	08-JUL-19	J154	33
C10	Hugh Jackman	29	8809966936	bilal@bluwurmind234.tk	B048	confirmed	01-JUL-19	06-JUL-19	J08	10
C10	Hugh Jackman	29	8809966936	bilal@bluwurmind234.tk	B086	confirmed	06-JUL-19	07-JUL-19	J91	10
C10	Hugh Jackman	29	8809966936	bilal@bluwurmind234.tk	B010	confirmed	01-JUL-19	05-JUL-19	J21	30
C12	George Weah	49	4668960411	0lolo_lola2010858@popichai.com	B088	confirmed	01-JUL-19	07-JUL-19	J91	22
C12	George Weah	49	4668960411	0lolo_lola2010858@popichai.com	B0126	confirmed	01-JUL-19	08-JUL-19	J154	35
C12	George Weah	49	4668960411	0lolo_lola2010858@popichai.com	B012	confirmed	01-JUL-19	05-JUL-19	J21	32
C12	George Weah	49	4668960411	0lolo_lola2010858@popichai.com	B050	confirmed	05-JUL-19	06-JUL-19	J08	12

8 rows selected.

### Query-7. List the Buses which have AC.

QUERY : SELECT \* FROM BUS\_DETAILS WHERE AC\_NONAC='ac';

```
BUS_I  BUS_TYPE  AC_NON  SEAT_STRENGTH  OWNER_  LEASE_STAT
-----
B01    seater    ac              42  GJ4895  leased
B02    seater    ac              42  GJ6197  leased
B03    seater    ac              42  GJ6138  leased
B07    sleeper   ac              42  GJ2255  leased
B08    sleeper   ac              42  GJ3333  leased
B09    sleeper   ac              42  GJ8305  leased

6 rows selected.
```

Query-8. List the details for Journey with Stops in between and Customer Booking Date 1<sup>st</sup> of July 2019.

```

QUERY : SELECT JOURNEY_ID, NAME, CUSTOMER_ID, BOOKING_ID, SOURCE,
DESTINATION,BOOKING_DATE,JDDATE,ROUTE_TOWN1,ROUTE_TOWN2,ROUTE_TOWN3
FROM (SELECT P.NAME, P.CUSTOMER_ID, C.BOOKING_ID, C.JOURNEY_ID,
C.BOOKING_DATE FROM PASSENGER_DETAILS P JOIN CUSTOMER_BOOKING_DETAILS
C ON P.CUSTOMER_ID=C.CUSTOMER_ID) NATURAL JOIN (SELECT J.SOURCE,
J.DESTINATION,J.JDDATE,S.ROUTE_TOWN1,S.ROUTE_TOWN2,S.ROUTE_TOWN3,J.JOURN
EY_ID FROM JOURNEY_DETAILS J JOIN SERVICE_ROUTE_DETAILS S ON
J.ROUTE_ID=S.ROUTE_ID) WHERE BOOKING_DATE = '01-JUL-19' AND (ROUTE_TOWN1 IS
NULL OR ROUTE_TOWN2 IS NULL OR ROUTE_TOWN3 IS NULL) ORDER BY JDDATE;

```

[illegible]



Query-9. List the Customers in Bus B02 for journey on 5<sup>th</sup> July 2019 with confirmed seat status.

```
QUERY : SELECT P.CUSTOMER_ID, P.NAME, P.PHONE_NUMBER, BCJ.BOOKING_ID,
BCJ.BUS_ID,BCJ.JOURNEY_ID,BCJ.TTIME DATE_TIME FROM PASSENGER_DETAILS P
INNER JOIN (SELECT BO.BOOKING_ID, BO.CUSTOMER_ID, BJ.BUS_ID,
BJ.JOURNEY_ID,BJ.TTIME FROM CUSTOMER_BOOKING_DETAILS BO INNER JOIN
(SELECT B.BUS_ID,J.JOURNEY_ID,J.TTIME FROM JOURNEY_DETAILS J INNER JOIN
BUS_DETAILS B ON J.BUS_ID=B.BUS_ID WHERE J.TTIME='05-JULY-2019 06:00:00 AM'
AND B.BUS_ID='B02') BJ ON BJ.JOURNEY_ID=BO.JOURNEY_ID WHERE
BO.SEAT_STATUS='confirmed') BCJ ON BCJ.CUSTOMER_ID=P.CUSTOMER_ID;
```

CUSTO	NAME	PHONE_NUMBER	BOOKIN	BUS_I	JOURN	DATE_TIME
C01	Jamie Vardy	3692029666	B001	B02	J21	05-JUL-19 06.00.00.000000 AM
C02	Adam Traore	3381358905	B002	B02	J21	05-JUL-19 06.00.00.000000 AM
C03	Sandi Malls	1564337985	B003	B02	J21	05-JUL-19 06.00.00.000000 AM
C04	Trent Arnold	5485949405	B004	B02	J21	05-JUL-19 06.00.00.000000 AM
C05	Mike Forgo	5934710388	B005	B02	J21	05-JUL-19 06.00.00.000000 AM
C06	Gabriel Foden	9698291115	B006	B02	J21	05-JUL-19 06.00.00.000000 AM
C07	Phil Kevin	2265315320	B007	B02	J21	05-JUL-19 06.00.00.000000 AM
C08	Eion Morgan	1298973395	B008	B02	J21	05-JUL-19 06.00.00.000000 AM
C09	David Willis	9982350680	B009	B02	J21	05-JUL-19 06.00.00.000000 AM
C10	Hugh Jackman	8809966936	B010	B02	J21	05-JUL-19 06.00.00.000000 AM
C11	Genny Ollins	9357843930	B011	B02	J21	05-JUL-19 06.00.00.000000 AM
CUSTO	NAME	PHONE_NUMBER	BOOKIN	BUS_I	JOURN	DATE_TIME
C12	George Weah	4668960411	B012	B02	J21	05-JUL-19 06.00.00.000000 AM
C13	Gill Dennis	7180193947	B013	B02	J21	05-JUL-19 06.00.00.000000 AM
C14	Fred Jinngs	6057381289	B014	B02	J21	05-JUL-19 06.00.00.000000 AM
C15	Phoeb Kevin	2265532012	B015	B02	J21	05-JUL-19 06.00.00.000000 AM
C16	Eion Morner	9598973395	B016	B02	J21	05-JUL-19 06.00.00.000000 AM
C17	Rita Wallis	9382930680	B017	B02	J21	05-JUL-19 06.00.00.000000 AM
C18	Hugli Jackler	8839966936	B018	B02	J21	05-JUL-19 06.00.00.000000 AM
C19	Genny Ollins	938753930	B019	B02	J21	05-JUL-19 06.00.00.000000 AM
C20	George Wovey	9876960411	B020	B02	J21	05-JUL-19 06.00.00.000000 AM
C21	Gill Dennis	9464193947	B021	B02	J21	05-JUL-19 06.00.00.000000 AM
C22	Fred Jinngs	9443381289	B022	B02	J21	05-JUL-19 06.00.00.000000 AM
CUSTO	NAME	PHONE_NUMBER	BOOKIN	BUS_I	JOURN	DATE_TIME
C23	Phineas Kevester	9005315320	B023	B02	J21	05-JUL-19 06.00.00.000000 AM
C24	Kallis Morgan	9090973395	B024	B02	J21	05-JUL-19 06.00.00.000000 AM
C25	Dave Williamson	9121350680	B025	B02	J21	05-JUL-19 06.00.00.000000 AM
C26	Hugh Caprio	9911966936	B026	B02	J21	05-JUL-19 06.00.00.000000 AM
C27	Gen Jokstar	9234843930	B027	B02	J21	05-JUL-19 06.00.00.000000 AM
C28	George Wheatley	9434960411	B028	B02	J21	05-JUL-19 06.00.00.000000 AM
C29	Gilliam Dennistar	9023453947	B029	B02	J21	05-JUL-19 06.00.00.000000 AM
C30	Fredling Jingis	9900380089	B030	B02	J21	05-JUL-19 06.00.00.000000 AM
C31	Ferb Kevlos	2265315320	B031	B02	J21	05-JUL-19 06.00.00.000000 AM
C32	Morgan Ellis	1298973395	B032	B02	J21	05-JUL-19 06.00.00.000000 AM
C33	David Decker	9982350680	B033	B02	J21	05-JUL-19 06.00.00.000000 AM
CUSTO	NAME	PHONE_NUMBER	BOOKIN	BUS_I	JOURN	DATE_TIME
C34	Jack Morris	8809966936	B034	B02	J21	05-JUL-19 06.00.00.000000 AM
C35	Genny Oliver	9357843930	B035	B02	J21	05-JUL-19 06.00.00.000000 AM
C36	Gerill Johnson	4668960411	B036	B02	J21	05-JUL-19 06.00.00.000000 AM
C37	Den Gillings	7180193947	B037	B02	J21	05-JUL-19 06.00.00.000000 AM
C38	Fredrick Willing	6057381289	B038	B02	J21	05-JUL-19 06.00.00.000000 AM

38 rows selected.

Query-10. List the drivers with more than 20 years of experience.

QUERY : SELECT DRIVER\_ID,NAME,HIRE\_DATE FROM DRIVER\_DETAILS WHERE TRUNC(((SYSDATE-HIRE\_DATE)/365),0)>=20;

DRIVE	NAME	HIRE_DATE
D01	Karli Jones	15-MAR-01
D02	Sator Kallis	12-MAY-02
D06	Winston Kal	11-MAR-01
D07	Ben Foley	07-JAN-02
D10	Zach Jensen	27-MAY-01
D11	Clay Jensen	30-JAN-02
D12	John Davis	01-NOV-01

7 rows selected.

Query-11. List the Details of Customer who will have 3-stops along the journey.

QUERY : SELECT JOURNEY\_ID,NAME, CUSTOMER\_ID,BOOKING\_ID, SOURCE,DESTINATION,BOOKING\_DATE FROM (SELECT P.NAME,P.CUSTOMER\_ID, C.BOOKING\_ID,C.JOURNEY\_ID,C.BOOKING\_DATE FROM PASSENGER\_DETAILS P JOIN CUSTOMER\_BOOKING\_DETAILS C ON P.CUSTOMER\_ID=C.CUSTOMER\_ID) NATURAL JOIN (SELECT J.SOURCE,J.DESTINATION, S.ROUTE\_TOWN1,S.ROUTE\_TOWN2, S.ROUTE\_TOWN3,J.JOURNEY\_ID FROM JOURNEY\_DETAILS J JOIN SERVICE\_ROUTE\_DETAILS S ON J.ROUTE\_ID=S.ROUTE\_ID) WHERE (ROUTE\_TOWN1 IS NOT NULL AND ROUTE\_TOWN2 IS NOT NULL AND ROUTE\_TOWN3 IS NOT NULL) AND BOOKING\_DATE='01-JUL-19'

JOURN	NAME	CUSTO	BOOKIN	SOURCE	DESTINATION	BOOKING_D
J21	Hugh Jackman	C10	B010	BHARUCH	VADODARA	01-JUL-19
J21	Genny Ollins	C11	B011	BHARUCH	VADODARA	01-JUL-19
J21	George Weah	C12	B012	BHARUCH	VADODARA	01-JUL-19
J21	Gill Dennis	C13	B013	BHARUCH	VADODARA	01-JUL-19
J21	Fred Jinngs	C14	B014	BHARUCH	VADODARA	01-JUL-19
J21	Phoeb Kevin	C15	B015	BHARUCH	VADODARA	01-JUL-19
J21	Eion Morner	C16	B016	BHARUCH	VADODARA	01-JUL-19
J21	Jack Morris	C34	B034	BHARUCH	VADODARA	01-JUL-19

8 rows selected.



## Query-12. List the Details of Customer going on a non-stop journey to their destination.

QUERY : SELECT JOURNEY\_ID,NAME,CUSTOMER\_ID,BOOKING\_ID,SOURCE,DESTINATION  
FROM (SELECT P.NAME,P.CUSTOMER\_ID,C.BOOKING\_ID,C.JOURNEY\_ID FROM  
PASSENGER\_DETAILS P JOIN CUSTOMER\_BOOKING\_DETAILS C ON  
P.CUSTOMER\_ID=C.CUSTOMER\_ID) NATURAL JOIN (SELECT  
J.SOURCE,J.DESTINATION,S.ROUTE\_TOWN1,S.ROUTE\_TOWN2,S.ROUTE\_TOWN3,J.JOURN  
EY\_ID FROM JOURNEY\_DETAILS J JOIN SERVICE\_ROUTE\_DETAILS S ON  
J.ROUTE\_ID=S.ROUTE\_ID) WHERE ROUTE\_TOWN1 IS NULL AND ROUTE\_TOWN2 IS NULL  
AND ROUTE\_TOWN3 IS NULL;

JOURN	NAME	CUSTO	BOOKIN	SOURCE	DESTINATION
J154	Jamie Vardy	C01	B0115	BHARUCH	SURAT
J154	Adam Traore	C02	B0116	BHARUCH	SURAT
J154	Sandi Malls	C03	B0117	BHARUCH	SURAT
J154	Trent Arnold	C04	B0118	BHARUCH	SURAT
J154	Mike Forgo	C05	B0119	BHARUCH	SURAT
J154	Gabriel Foden	C06	B0120	BHARUCH	SURAT
J154	Phil Kevin	C07	B0121	BHARUCH	SURAT
J154	Eion Morgan	C08	B0122	BHARUCH	SURAT
J154	David Willis	C09	B0123	BHARUCH	SURAT
J154	Hugh Jackman	C10	B0124	BHARUCH	SURAT
J154	Genny Ollins	C11	B0125	BHARUCH	SURAT
J154	George Weah	C12	B0126	BHARUCH	SURAT
J154	Gill Dennis	C13	B0127	BHARUCH	SURAT
J154	Fred Jinngs	C14	B0128	BHARUCH	SURAT
J154	Phoeb Kevin	C15	B0129	BHARUCH	SURAT
J154	Eion Morner	C16	B0130	BHARUCH	SURAT
J154	Rita Wallis	C17	B0131	BHARUCH	SURAT
J154	Hugli Jackler	C18	B0132	BHARUCH	SURAT
J154	Genny Ollins	C19	B0133	BHARUCH	SURAT
J154	George Wovey	C20	B0134	BHARUCH	SURAT
J154	Gill Dennis	C21	B0135	BHARUCH	SURAT
J154	Fred Jinngs	C22	B0136	BHARUCH	SURAT
J154	Phineas Kevester	C23	B0137	BHARUCH	SURAT
J154	Kallis Morgan	C24	B0138	BHARUCH	SURAT
J154	Dave Williamson	C25	B0139	BHARUCH	SURAT
J154	Hugh Caprio	C26	B0140	BHARUCH	SURAT
J154	Gen Jokstar	C27	B0141	BHARUCH	SURAT
J154	George Wheatley	C28	B0142	BHARUCH	SURAT
J154	Gilliam Dennistar	C29	B0143	BHARUCH	SURAT
J154	Fredling Jingis	C30	B0144	BHARUCH	SURAT
J154	Ferb Kevlos	C31	B0145	BHARUCH	SURAT
J154	Morgan Ellis	C32	B0146	BHARUCH	SURAT
J154	David Decker	C33	B0147	BHARUCH	SURAT
J154	Jack Morris	C34	B0148	BHARUCH	SURAT
J154	Genny Oliver	C35	B0149	BHARUCH	SURAT
J154	Gerill Johnson	C36	B0150	BHARUCH	SURAT
J154	Den Gillings	C37	B0151	BHARUCH	SURAT
J154	Fredrick Willing	C38	B0152	BHARUCH	SURAT

38 rows selected.

;Query-13. List the details of customer having booking date of 3rd July 2019.

```
QUERY : SELECT PASSENGER_DETAILS.CUSTOMER_ID,PASSENGER_DETAILS.NAME
FROM PASSENGER_DETAILS INNER JOIN CUSTOMER_BOOKING_DETAILS ON
CUSTOMER_BOOKING_DETAILS.CUSTOMER_ID=PASSENGER_DETAILS.CUSTOMER_ID
WHERE CUSTOMER_BOOKING_DETAILS.BOOKING_DATE='03-JULY-2019' AND
CUSTOMER_BOOKING_DETAILS.SEAT_NUM BETWEEN 11 AND 20 GROUP BY
PASSENGER_DETAILS.CUSTOMER_ID,PASSENGER_DETAILS.NAME ORDER BY
PASSENGER_DETAILS.CUSTOMER_ID,PASSENGER_DETAILS.NAME;
```

CUSTO	NAME
C07	Phil Kevin
C22	Fred Jinngs
C23	Phineas Kevester
C24	Kallis Morgan
C25	Dave Williamson

Query-14. List the Details of Ac- Sleeper/Seater Buses going from bharuch to Navsari between 5th and 6th JULY.

```
QUERY : SELECT * FROM BUS_DETAILS INNER JOIN JOURNEY_DETAILS ON
JOURNEY_DETAILS.BUS_ID=BUS_DETAILS.BUS_ID WHERE AC_NONAC='ac' AND
BUS_TYPE IN ('sleeper','seater') AND SOURCE IN ('BHARUCH') AND
DESTINATION='NAVSARI'AND TTIME BETWEEN '05-JULY-2019 12:00:00 AM' AND '07-
JULY-2019 12:00:00 AM';
```

BUS_I	BUS_TYPE	JOURN	SOURCE	DESTINATION	JDDATE
B09	sleeper	J161	BHARUCH	NAVSARI	05-JUL-19
B09	sleeper	J162	BHARUCH	NAVSARI	05-JUL-19
B09	sleeper	J163	BHARUCH	NAVSARI	05-JUL-19
B09	sleeper	J164	BHARUCH	NAVSARI	06-JUL-19
B09	sleeper	J165	BHARUCH	NAVSARI	06-JUL-19
B09	sleeper	J166	BHARUCH	NAVSARI	06-JUL-19
B09	sleeper	J167	BHARUCH	NAVSARI	06-JUL-19

7 rows selected.

Query-15. List the all the Buses operated by BRTS and AMTS with their journey details except for the Buses coming from GOA.

QUERY : SELECT JOURNEY\_DETAILS.SOURCE, JOURNEY\_DETAILS.DESTINATION, SERVICE\_ROUTE\_DETAILS.OPERATOR, JOURNEY\_DETAILS.JDDATE FROM SERVICE\_ROUTE\_DETAILS INNER JOIN JOURNEY\_DETAILS ON JOURNEY\_DETAILS.ROUTE\_ID = SERVICE\_ROUTE\_DETAILS.ROUTE\_ID WHERE OPERATOR IN ('BRTS','AMTS') AND NOT SOURCE='GOA' GROUP BY JOURNEY\_DETAILS.SOURCE, JOURNEY\_DETAILS.DESTINATION, SERVICE\_ROUTE\_DETAILS.OPERATOR, JOURNEY\_DETAILS.JDDATE ORDER BY JOURNEY\_DETAILS.SOURCE, JOURNEY\_DETAILS.DESTINATION, JOURNEY\_DETAILS.JDDATE;

SOURCE	DESTINATION	OPERATOR	JDDATE
BHARUCH	NAVSARI	BRTS	05-JUL-19
BHARUCH	NAVSARI	BRTS	06-JUL-19
BHARUCH	NAVSARI	BRTS	07-JUL-19
BHARUCH	NAVSARI	BRTS	08-JUL-19
BHARUCH	NAVSARI	BRTS	09-JUL-19
BHARUCH	NAVSARI	BRTS	10-JUL-19
BHARUCH	SURAT	BRTS	05-JUL-19
BHARUCH	SURAT	BRTS	06-JUL-19
BHARUCH	SURAT	BRTS	07-JUL-19
BHARUCH	SURAT	BRTS	08-JUL-19
BHARUCH	SURAT	BRTS	09-JUL-19
BHARUCH	SURAT	BRTS	10-JUL-19
BHARUCH	VADODARA	BRTS	05-JUL-19
BHARUCH	VADODARA	BRTS	06-JUL-19
BHARUCH	VADODARA	BRTS	07-JUL-19
BHARUCH	VADODARA	BRTS	08-JUL-19
BHARUCH	VADODARA	BRTS	09-JUL-19
DELHI	AHMEDABAD	AMTS	05-JUL-19
DELHI	AHMEDABAD	AMTS	06-JUL-19
DELHI	AHMEDABAD	AMTS	07-JUL-19
DELHI	AHMEDABAD	AMTS	08-JUL-19
DELHI	AHMEDABAD	AMTS	09-JUL-19
DELHI	AHMEDABAD	AMTS	10-JUL-19
RAJKOT	AHMEDABAD	AMTS	05-JUL-19
RAJKOT	AHMEDABAD	AMTS	06-JUL-19
RAJKOT	AHMEDABAD	AMTS	07-JUL-19
RAJKOT	AHMEDABAD	AMTS	08-JUL-19
RAJKOT	AHMEDABAD	AMTS	09-JUL-19
SURAT	AHMEDABAD	AMTS	05-JUL-19
SURAT	AHMEDABAD	AMTS	06-JUL-19
SURAT	AHMEDABAD	AMTS	07-JUL-19
SURAT	AHMEDABAD	AMTS	08-JUL-19
SURAT	AHMEDABAD	AMTS	09-JUL-19
SURAT	AHMEDABAD	AMTS	10-JUL-19
VADODARA	AHMEDABAD	BRTS	05-JUL-19
VADODARA	AHMEDABAD	BRTS	06-JUL-19
VADODARA	AHMEDABAD	BRTS	07-JUL-19
VADODARA	AHMEDABAD	BRTS	08-JUL-19
VADODARA	AHMEDABAD	BRTS	09-JUL-19

39 rows selected.



Query-16. List the Details of Drivers with rating more than or equal to 2 and their managers have only 4 sub-workers

QUERY : SELECT DRIVER\_DETAILS.DRIVER\_ID, DRIVER\_DETAILS.NAME,  
DRIVER\_DETAILS.RATING, MANAGER\_DETAILS.MANAGER\_ID,  
MANAGER\_DETAILS.NAME FROM MANAGER\_DETAILS INNER JOIN DRIVER\_DETAILS ON  
MANAGER\_DETAILS.MANAGER\_ID=DRIVER\_DETAILS.MANAGER\_ID WHERE  
DRIVER\_DETAILS.RATING>=3 AND MANAGER\_DETAILS.SUB\_WORKERS=4;

DRIVE	NAME	RATING	MANAG	NAME
D01	Karli Jones	4	M01	Harry Jones
D02	Sator Kallis	4	M01	Harry Jones
D03	Bellis Hay	4	M01	Harry Jones
D04	Will Collins	3	M01	Harry Jones
D05	Harry Kares	3	M02	Jen Kallis
D06	Winston Kal	4	M02	Jen Kallis
D07	Ben Foley	4	M02	Jen Kallis
D08	Ani Willis	4	M02	Jen Kallis
D09	Justin Achola	4	M03	Ben Haywire
D10	Zach Jensen	4	M03	Ben Haywire
D11	Clay Jensen	4	M03	Ben Haywire
D12	John Davis	4	M03	Ben Haywire

12 rows selected.

Query-17. List the details of all the passengers who are more than 60 years in age in a ordered form.

QUERY : SELECT CUSTOMER\_BOOKING\_DETAILS.TRAVEL\_DATE,  
CUSTOMER\_BOOKING\_DETAILS.BOOKING\_ID, PASSENGER\_DETAILS.CUSTOMER\_ID,  
PASSENGER\_DETAILS.NAME, PASSENGER\_DETAILS.PHONE\_NUMBER,  
CUSTOMER\_BOOKING\_DETAILS.JOURNEY\_ID FROM PASSENGER\_DETAILS INNER JOIN  
CUSTOMER\_BOOKING\_DETAILS ON CUSTOMER\_BOOKING\_DETAILS.CUSTOMER\_ID  
=PASSENGER\_DETAILS.CUSTOMER\_ID WHERE PASSENGER\_DETAILS.AGE>=60 ORDER  
BY CUSTOMER\_ID,NAME,TRAVEL\_DATE;

TRAVEL_DA	BOOKIN	CUSTO	NAME	PHONE_NUMBER	JOURN
05-JUL-19	B031	C31	Ferb Kevlos	2265315320	J21
06-JUL-19	B069	C31	Ferb Kevlos	2265315320	J08
07-JUL-19	B0107	C31	Ferb Kevlos	2265315320	J91
08-JUL-19	B0145	C31	Ferb Kevlos	2265315320	J154
05-JUL-19	B032	C32	Morgan Ellis	1298973395	J21
06-JUL-19	B070	C32	Morgan Ellis	1298973395	J08
07-JUL-19	B0108	C32	Morgan Ellis	1298973395	J91
08-JUL-19	B0146	C32	Morgan Ellis	1298973395	J154

8 rows selected.

Query-18. Details of drivers who are driving bus between 9:30 AM and 12:00 AM on 5th July 2019 having salary >= 15000.

QUERY : SELECT DRIVER\_ID,NAME,BUS\_ID, J.JOURNEY\_ID,J.SOURCE, J.DESTINATION,J.JDDATE,J.TTIME FROM DRIVER\_DETAILS D INNER JOIN JOURNEY\_DETAILS J ON D.ASSIGNED\_BUS\_ID = J.BUS\_ID WHERE J.TTIME BETWEEN '05-JULY-2019 12:00:00 AM' AND '05-JULY-2019 09:30:00 AM' AND D.SALARY>=15000;

DRIVE	NAME	BUS_I	JOURN	SOURCE	DESTINATION	JDDATE	TTIME
D01	Karli Jones	B01	J01	VADODARA	AHMEDABAD	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D02	Sator Kallis	B03	J41	MUMBAI	PUNE	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D03	Bellis Hay	B02	J21	BHARUCH	VADODARA	05-JUL-19	05-JUL-19 06.00.00.000000 AM
D05	Harry Kares	B05	J81	SURAT	AHMEDABAD	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D06	Winston Kal	B06	J101	RAJKOT	AHMEDABAD	05-JUL-19	05-JUL-19 06.00.00.000000 AM
D08	Ani Willis	B08	J141	BHARUCH	SURAT	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D10	Zach Jensen	B10	J181	DELHI	SHIMLA	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D11	Clay Jensen	B11	J201	DELHI	UDAIPUR	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D12	John Davis	B12	J221	GOA	AHMEDABAD	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D13	Bryce Williams	B01	J01	VADODARA	AHMEDABAD	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D14	Joey Baker	B02	J21	BHARUCH	VADODARA	05-JUL-19	05-JUL-19 06.00.00.000000 AM
D15	Jays Walker	B03	J41	MUMBAI	PUNE	05-JUL-19	05-JUL-19 06.30.00.000000 AM
D16	Munis Waller	B04	J61	JAIPUR	UDAIPUR	05-JUL-19	05-JUL-19 06.00.00.000000 AM

13 rows selected.

Query-19. List the Journey details and basic Details of all the Sleeper-buses.

QUERY : SELECT K.BUS\_TYPE,K.AC\_NONAC,K.SOURCE,K.DESTINATION FROM (SELECT \* FROM BUS\_DETAILS INNER JOIN JOURNEY\_DETAILS ON JOURNEY\_DETAILS.BUS\_ID=BUS\_DETAILS.BUS\_ID) K INNER JOIN SERVICE\_ROUTE\_DETAILS ON K.ROUTE\_ID = SERVICE\_ROUTE\_DETAILS.ROUTE\_ID WHERE K.BUS\_TYPE='sleeper' AND K.AC\_NONAC = 'ac' AND (ROUTE\_TOWN1 IS NULL OR ROUTE\_TOWN2 IS NULL OR ROUTE\_TOWN3 IS NULL) GROUP BY K.BUS\_TYPE,K.AC\_NONAC,K.SOURCE,K.DESTINATION;

BUS_TYPE	AC_NON	SOURCE	DESTINATION
sleeper	ac	BHARUCH	NAVSARI
sleeper	ac	BHARUCH	SURAT
sleeper	ac	DELHI	AHMEDABAD



Query-20. List the Details of the passengers who had done two bookings on the same day.

```
QUERY : SELECT PASSENGER_DETAILS.CUSTOMER_ID, PASSENGER_DETAILS.NAME,
BOOKING_DATE FROM PASSENGER_DETAILS INNER JOIN (SELECT
J.CUSTOMER_ID,BOOKING_ID,TRAVEL_DATE,J.BOOKING_DATE FROM
CUSTOMER_BOOKING_DETAILS INNER JOIN (SELECT CUSTOMER_ID, BOOKING_DATE
FROM ( SELECT CUSTOMER_ID,BOOKING_DATE,COUNT(BOOKING_DATE)"NUM" FROM
CUSTOMER_BOOKING_DETAILS GROUP BY BOOKING_DATE,CUSTOMER_ID ORDER BY
CUSTOMER_ID ) WHERE NUM=2 GROUP BY CUSTOMER_ID,BOOKING_DATE ORDER BY
CUSTOMER_ID) J ON CUSTOMER_BOOKING_DETAILS.CUSTOMER_ID=J.CUSTOMER_ID
AND CUSTOMER_BOOKING_DETAILS.BOOKING_DATE = J.BOOKING_DATE ORDER BY
CUSTOMER_ID,TRAVEL_DATE) M ON M.CUSTOMER_ID=
PASSENGER_DETAILS.CUSTOMER_ID GROUP BY PASSENGER_DETAILS.CUSTOMER_ID,
PASSENGER_DETAILS.NAME,BOOKING_DATE ORDER BY BOOKING_DATE,
PASSENGER_DETAILS.CUSTOMER_ID,PASSENGER_DETAILS.NAME;
```

CUSTO	NAME	BOOKING_D
C11	Genny Ollins	01-JUL-19
C14	Fred Jinngs	01-JUL-19
C16	Eion Morner	01-JUL-19
C25	Dave Williamson	01-JUL-19
C20	George Wovey	02-JUL-19
C07	Phil Kevin	03-JUL-19
C09	David Willis	03-JUL-19
C17	Rita Wallis	03-JUL-19
C22	Fred Jinngs	03-JUL-19
C23	Phineas Kevester	03-JUL-19
C25	Dave Williamson	03-JUL-19
C36	Gerill Johnson	03-JUL-19
C37	Den Gillings	03-JUL-19
C30	Fredling Jingis	04-JUL-19
C33	David Decker	04-JUL-19
C35	Genny Oliver	04-JUL-19
C36	Gerill Johnson	04-JUL-19
C02	Adam Traore	05-JUL-19
C03	Sandi Malls	05-JUL-19
C15	Phoeb Kevin	05-JUL-19
C29	Gilliam Dennistar	05-JUL-19

21 rows selected.