

## ASSIGNMENT

```
create keyspace assignment with replication =
{'class':'SimpleStrategy','replication_factor':1};
use assignment;
```

1. Write new driver details for registration, ensuring that the driver name does not exist.

```
create table driver(driver_name text primary key,password
ascii,mobile bigint,current_position text,skill set<text>);
insert into driver(driver_name,password,mobile,current_position,skill)
values('harry','1234578',9292929292,'FA4567',{'express train,passenger
train'});
insert into driver(driver_name,password,mobile,current_position,skill)
values('pete','11111111',9922992299,'WELLINGTON',{'passenger train'});
insert into driver(driver_name,password,mobile,current_position,skill)
values('william','22222222',9922992299,'not_available',{'express train'});
select * from driver;
```

driver_name	current_position	mobile	password	skill
harry	FA4567	9292929292	1234578	{'express train,passenger train'}
william	not_available	9922992299	22222222	{'express train'}
pete	WELLINGTON	9922992299	11111111	{'passenger train'}

(3 rows)

2. Change the password of a driver, ensuring that the current password matches what is in the database.

```
update driver set password = '1211211' where driver_name='pete'
IF password = '11111111';
```

```
[applied]
-----
      True

cqlsh:assignment> select * from driver;
```

driver_name	current_position	mobile	password	skill
harry	FA4567	9292929292	1234578	{'express train,passenger train'}
william	not_available	9922992299	22222222	{'express train'}
pete	WELLINGTON	9922992299	12111211	{'passenger train'}

```
(3 rows)
```

3. Update the current position of a driver.

update driver set current\_position = 'FB5566' where driver\_name = 'william';

```
cqlsh:assignment> select * from driver;
```

driver_name	current_position	mobile	password	skill
harry	FA4567	9292929292	1234578	{'express train,passenger train'}
william	FB5566	9922992299	22222222	{'express train'}
pete	WELLINGTON	9922992299	12111211	{'passenger train'}

```
(3 rows)
```

4. Update the set of skills of a driver.

update driver set skill = {'express train'} where driver\_name = 'pete';

```
cqlsh:assignment> select * from driver;
```

driver_name	current_position	mobile	password	skill
harry	FA4567	9292929292	1234578	{'express train,passenger train'}
william	FB5566	9922992299	22222222	{'express train'}
pete	WELLINGTON	9922992299	12111211	{'express train'}

```
(3 rows)
```

5. Update the number of days at work per month for a driver.

update data\_point set day=5 where sequence='2020-03-10';

```
cqlsh:assignment> select * from data_point;
```

sequence	day	latitude	longitude	speed
2020-04-11 18:30:00.000000+0000	2	65.6	68.5	56
2020-03-09 18:30:00.000000+0000	5	59.5	61.5	76
2020-06-14 18:30:00.000000+0000	1	66.6	78.5	98

```
(3 rows)
```

6. Write new vehicle details.

```
create table vehicles(vehicle_id ascii primary key,status ascii,type
ascii);
insert into vehicles(vehicle_id,status,type)
values('KA23456','Maintenance','Gulliver');
insert into vehicles(vehicle_id,status,type) values('KA23786','Upper
Hutt','Ganz Mavag');
insert into vehicles(vehicle_id,status,type)
values('KA35786','out_of_order','Kiwi Rail');
select * from vehicles;
```

vehicle_id	status	type
KA35786	out_of_order	Kiwi Rail
KA23786	Upper Hutt	Ganz Mavag
KA23456	Maintenance	Gulliver

7. Update the status of a vehicle.

```
update vehicles set status = 'Maintenance' where vehicle_id =
'KA35786';
```

```
cqlsh:assignment> select * from vehicles;
```

vehicle_id	status	type
KA35786	Maintenance	Kiwi Rail
KA23786	Upper Hutt	Ganz Mavag
KA23456	Maintenance	Gulliver

(3 rows)

8. Increment the daily distance for a vehicle.

No daily distance column for vehicle

9. Increment the total distance for a vehicle.

```
create table vehicle_usage(vehicle_id text,total_distance
counter,primary key(vehicle_id));
update vehicle_usage set total_distance=total_distance+100 where
vehicle_id='KA35786';
update vehicle_usage set total_distance=total_distance+250 where
vehicle_id='KA23786';
update vehicle_usage set total_distance=total_distance+300 where
vehicle_id='KA23456';
select * from vehicle_usage;
```

```
cqlsh:assignment> select * from vehicle_usage;
```

vehicle_id	total_distance
KA35786	101
KA23786	252
KA23456	301

(3 rows)

```
update vehicle_usage set total_distance = total_distance + 7 where
vehicle_id = 'KA23786';
```

```
cqlsh:assignment> select * from vehicle_usage;
```

vehicle_id	total_distance
KA35786	101
KA23786	259
KA23456	301

```
(3 rows)
```

10. Write the train time table.

```
create table time_table(line_name ascii primary key,service_no
bigint,station_name text, latitude double,longitude double,time int,distance
double);
```

```
insert into time_table (line_name, service_no, station_name, latitude,
longitude, time, distance)
values('LINE1',3245,'marathalli',57.30,60.40,1530,335);
```

```
insert into time_table (line_name, service_no, station_name, latitude,
longitude, time, distance) values('LINE2',4323,'white
field',55.30,32.40,1430,400);
```

```
insert into time_table (line_name, service_no, station_name, latitude,
longitude, time, distance) values('LINE3',2321,'mg
road',42.20,90.40,1604,300);
```

```
cqlsh:assignment> select * from time_table;
```

line_name	distance	latitude	longitude	service_no	station_name	time
LINE2	400	55.3	32.4	4323	white field	1430
LINE3	300	42.2	90.4	2321	mg road	1604
LINE1	335	57.3	60.4	3245	marathalli	1530

```
(3 rows)
```

11. Write a departure station with time and service identification (line\_name, service\_no).

```
insert into time_table (line_name, service_no, station_name, latitude,
longitude, time, distance) values('LINE4',1231,'departure
station',42.20,90.40,1604,300);
```

```
cqlsh:assignment> select * from time_table;
```

line_name	distance	latitude	longitude	service_no	station_name	time
LINE2	400	55.3	32.4	4323	white field	1430
LINE3	300	42.2	90.4	2321	mg road	1604
LINE4	300	42.2	90.4	1231	departure station	1604
LINE1	335	57.3	60.4	3245	marathalli	1530

```
(4 rows)
```

12. Write a data point for a service.

```
create table data_point(day int,sequence timestamp primary
key,latitude double,longitude double,speed double);
```

```
insert into data_point(day,sequence,latitude,longitude,speed)
values(14,'2020-03-10',59.50,61.50,76);
```

```
insert into data_point(day,sequence,latitude,longitude,speed)
values(2,'2020-04-12',65.60,68.50,56);
```

```
insert into data_point(day,sequence,latitude,longitude,speed)
values(1,'2020-06-15',66.60,78.50,98);
```

```
select * from data_point;
```

sequence	day	latitude	longitude	speed
2020-04-11 18:30:00.000000+0000	2	65.6	68.5	56
2020-03-09 18:30:00.000000+0000	14	59.5	61.5	76
2020-06-14 18:30:00.000000+0000	1	66.6	78.5	98

```
(3 rows)
```