

## PROJECT REVIEW- II

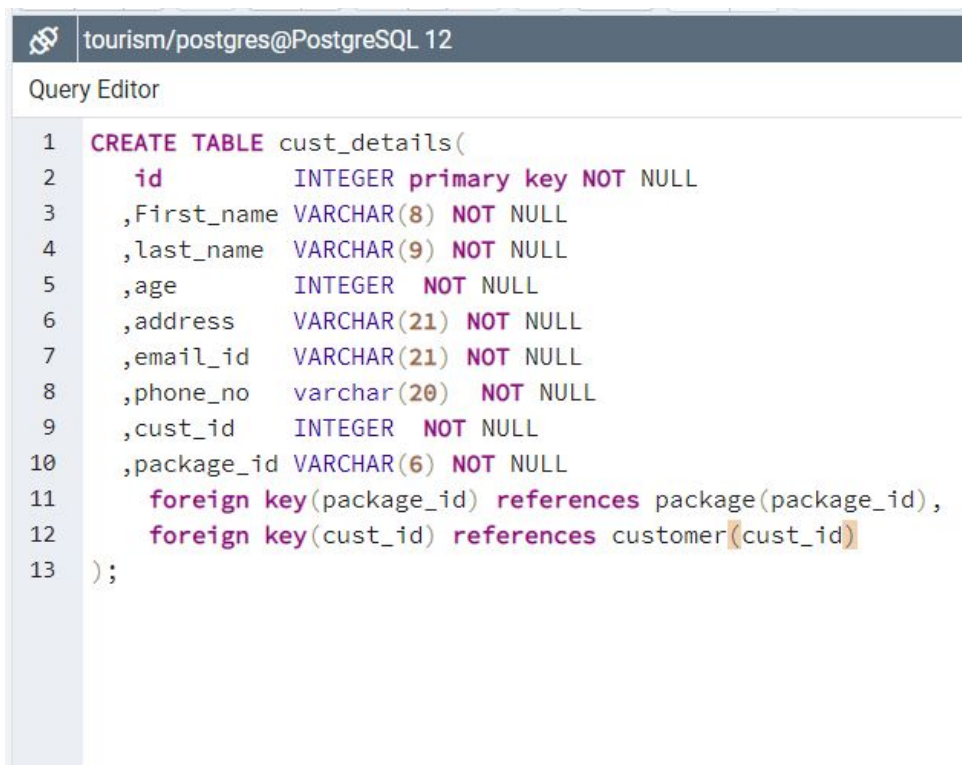
### KERALA TOURISM

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Normalised tables sheet link:

<https://docs.google.com/spreadsheets/d/1DHvMpei3Z1oK2ufGpvYEz4GEDJVIEpiM6St-e1P6pl/edit?usp=sharing>

DDL and DML



```
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Query Editor
1 CREATE TABLE cust_details(
2     id          INTEGER primary key NOT NULL
3     ,First_name VARCHAR(8) NOT NULL
4     ,last_name  VARCHAR(9) NOT NULL
5     ,age        INTEGER NOT NULL
6     ,address    VARCHAR(21) NOT NULL
7     ,email_id   VARCHAR(21) NOT NULL
8     ,phone_no   varchar(20) NOT NULL
9     ,cust_id    INTEGER NOT NULL
10    ,package_id VARCHAR(6) NOT NULL
11    foreign key(package_id) references package(package_id),
12    foreign key(cust_id) references customer(cust_id)
13 );
```



## Query Editor

```
1
2 INSERT INTO cust_details VALUES (1000,'jin','Seok',18,'tc 12/34, Sweden','jinwwh@gmail.com')
3 INSERT INTO cust_details VALUES (2000,'namjoon','Kim',19,'tc 45/76, Uganda','namjoon@gmail.com')
4 INSERT INTO cust_details VALUES (3000,'Virat','Kohli',21,'tc 98/25, maldives','virat@gmail.com')
5 INSERT INTO cust_details VALUES (4000,'jungkook','Jeon',48,'tc 85/23, new york','jungkook@gmail.com')
6 INSERT INTO cust_details VALUES (5000,'jimin','Park',44,'tc 77/23, switzerland','jimin@gmail.com')
7 INSERT INTO cust_details VALUES (6000,'Devdutt','Padikkal',20,'tc 99/12, bali','dev20@gmail.com')
8 INSERT INTO cust_details VALUES (7000,'Rohit','Sharma',5,'tc 12/87, greece','padi5@gmail.com')
9 INSERT INTO cust_details VALUES (8000,'Harry','Potter',99,'tc 09/88 venice','harryst@gmail.com')
10 INSERT INTO cust_details VALUES (9000,'jung','jhope',16,'tc 22/32, Ethiopia','jhope1@gmail.com')
11 INSERT INTO cust_details VALUES (10000,'suga','min',22,'tc 44/76, africa','sugar@gmail.com')
12
```

## Messages

INSERT 0 1

Query returned successfully in 87 msec.

## Data Output

	id [PK] integer	first_name character varying (8)	last_name character varying (9)	age integer	address character varying (255)
1	1000	jin	Seok	18	tc 12/34, Sweden
2	2000	namjoon	Kim	19	tc 45/76, Uganda
3	3000	Virat	Kohli	21	tc 98/25, maldives
4	4000	jungkook	Jeon	48	tc 85/23, new york
5	5000	jimin	Park	44	tc 77/23, switzerland
6	6000	Devdutt	Padikkal	20	tc 99/12, bali
7	7000	Rohit	Sharma	5	tc 12/87, greece
8	8000	Harry	Potter	99	tc 09/88 venice
9	9000	jung	jhope	16	tc 22/32, Ethiopia
10	10000	suga	min	22	tc 44/76, africa



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### Query Editor

```
1
2 CREATE TABLE hotel(
3     hotel_id      VARCHAR(6) NOT NULL PRIMARY KEY
4     ,hotel_name   VARCHAR(9) NOT NULL
5     ,hotel_contact varchar(20) NOT NULL
6     ,pvt_rating   NUMERIC(3,1) NOT NULL
7     ,govt_rating  NUMERIC(3,1) NOT NULL
8 );
```



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### Query Editor

```
1 INSERT INTO hotel VALUES ('H-9923','DeLuna',9868789754,4.5,4);
2 INSERT INTO hotel VALUES ('H-4556','Vmonster',9789686899,2.5,3);
3 INSERT INTO hotel VALUES ('H-1278','Skylight',8888795678,3,3.5);
4 INSERT INTO hotel VALUES ('H-0632','Seoul',9875678547,4.5,5);
5 INSERT INTO hotel VALUES ('H-0976','Italica',9381145077,2,4);
6 INSERT INTO hotel VALUES ('H-3452','Greenlake',9966687536,2.5,3);
7 INSERT INTO hotel VALUES ('H-2121','Lakeview',8986567857,4,3);
8 INSERT INTO hotel VALUES ('H-0909','Hillpoint',9912517154,3,3.5);
9
```

Query History Explain Messages

#### Data Output

	hotel_id [PK] character varying (6)	hotel_name character varying (9)	hotel_contact character varying (20)	pvt_rating numeric (3,1)
1	H-9923	DeLuna	9868789754	4.5
2	H-4556	Vmonster	9789686899	2.5
3	H-1278	Skylight	8888795678	3.0
4	H-0632	Seoul	9875678547	4.5
5	H-0976	Italica	9381145077	2.0
6	H-3452	Greenlake	9966687536	2.5
7	H-2121	Lakeview	8986567857	4.0
8	H-0909	Hillpoint	9912517154	3.0



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#### Query Editor

```
1 CREATE TABLE package(  
2     package_id      VARCHAR(6) NOT NULL PRIMARY KEY  
3     ,Location       VARCHAR(9) NOT NULL  
4     ,Guide          VARCHAR(9) NOT NULL  
5     ,Cost           VARCHAR(6) NOT NULL  
6     ,near_by_airport VARCHAR(12) NOT NULL  
7     ,tourspot       VARCHAR(21) NOT NULL  
8     ,vehicle_no     VARCHAR(11) NOT NULL  
9     ,hotel_id       VARCHAR(6) NOT NULL  
10    ,foreign key(tourspot) references tourspot(tourspot),  
11    ,foreign key(vehicle_no) references vehicle(vehicle_no),  
12    ,foreign key(hotel_id) references hotel(hotel_id),  
13 );
```



## Query Editor

```
1 INSERT INTO package VALUES ('KL-001','Varkala','Laura','5000/-','Trivandrum','Varkala
2 INSERT INTO package VALUES ('KL-002','Kochi','Christina','1000/-','Nedumbassery','Fo
3 INSERT INTO package VALUES ('KL-006','Munnar','Tony','2500/-','Nedumbassery','National
4 INSERT INTO package VALUES ('KL-005','Vagamon','Draco','7000/-','Trivandrum','Pine val
5 INSERT INTO package VALUES ('KL-004','Alappuzha','Joseph','6000/-','Nedumbassery','Bea
6 INSERT INTO package VALUES ('KL-009','Thekkadi','Laura','2000/-','Nedumbassery','Eleph
7 INSERT INTO package VALUES ('KL-008','Ponmudi','Caroline','50/-','Trivandrum','Meenmut
8 INSERT INTO package VALUES ('KL-010','Waynad','Kira','3000/-','Karipur','Edakkal caves
9
```

## Data Output

	<b>package_id</b> [PK] character varying (6)	<b>location</b> character varying (9)	<b>guide</b> character varying (9)	<b>cost</b> character vary
1	KL-001	Varkala	Laura	5000/-
2	KL-002	Kochi	Christina	1000/-
3	KL-006	Munnar	Tony	2500/-
4	KL-005	Vagamon	Draco	7000/-
5	KL-004	Alappuzha	Joseph	6000/-
6	KL-009	Thekkadi	Laura	2000/-
7	KL-008	Ponmudi	Caroline	50/-
8	KL-010	Waynad	Kira	3000/-

✓ Query returned successfully in 100 msec.





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Query Editor

```
1 CREATE TABLE vehicle(  
2     vehicle_no    VARCHAR(11) NOT NULL PRIMARY KEY  
3     ,transport_mode VARCHAR(3) NOT NULL  
4     ,count        INTEGER NOT NULL  
5     ,t_cost       VARCHAR(6) NOT NULL  
6 );
```



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Query Editor

```
1 INSERT INTO vehicle VALUES ('KL-01LY2234','Bus',4,'1000/-');  
2 INSERT INTO vehicle VALUES ('KL-07MA2200','Van',3,'600/-');  
3 INSERT INTO vehicle VALUES ('KL-07JK4455','Bus',7,'3000/-');  
4 INSERT INTO vehicle VALUES ('KL-05BJ9022','Bus',5,'1200/-');  
5 INSERT INTO vehicle VALUES ('KL-04AK2111','Car',2,'300/-');  
6 INSERT INTO vehicle VALUES ('KL-06YZ1134','Van',3,'900/-');  
7 INSERT INTO vehicle VALUES ('KL-56LY2333','Bus',8,'2600/-');  
8 INSERT INTO vehicle VALUES ('KL-23QQ3344','car',1,'200/-');
```

Data Output				
	vehicle_no [PK] character varying (11)	transport_mode character varying (3)	count integer	t_cost character varying (6)
1	KL-01LY2234	Bus	4	1000/-
2	KL-07MA2200	Van	3	600/-
3	KL-07JK4455	Bus	7	3000/-
4	KL-05BJ9022	Bus	5	1200/-
5	KL-04AK2111	Car	2	300/-
6	KL-06YZ1134	Van	3	900/-
7	KL-56LY2333	Bus	8	2600/-
8	KL-23QQ3344	car	1	200/-

**Generate 10 queries based on the relations obtained in 2. The queries must be based on the following:**

i. Aggregate functions, Group by...having

Query Editor

```


1 select hotel_id, hotel_name
2 from hotel
3 group by hotel_id
4 having pvt_rating>3;

```

Data Output

	hotel_id [PK] character varying (6)	hotel_name character varying (9)
1	H-2121	Lakeview
2	H-9923	DeLuna
3	H-0632	Seoul

## ii. Order by

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Query Editor


```
1 select * from cust_details
2 order by age;
```

Data Output

	id [PK] integer	first_name character varying (8)	last_name character varying (9)	age integer	address character varying (21)	email_id character varyi
1	7000	Rohit	Sharma	5	tc 12/87, greece	padi5@gmail.c
2	9000	jung	jhope	16	tc 22/32, Ethiopia	jhope1@gmail.
3	1000	jin	Seok	18	tc 12/34, Sweden	jinwwh@gmail
4	2000	namjoon	Kim	19	tc 45/76, Uganda	namjoon@gma
5	6000	Devdutt	Padikkal	20	tc 99/12, bali	dev20@gmail.c
6	3000	Virat	Kohli	21	tc 98/25, maldives	virat@gmail.cc
7	10000	suga	min	22	tc 44/76, africa	sugar@gmail.c
8	5000	jimin	Park	44	tc 77/23, switzerland	jimin07@gmail
9	4000	jungkook	Jeon	48	tc 85/23, new york	jungkook97@g
10	8000	Harry	Potter	00	tc 00/88, venice	harrystyles@n

Notifications Data Output

## iii. Join

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Query Editor

```
1 select package.package_id,
2 package.Location
3 from package
4 inner join cust_details on
5 cust_details.package_id = package.package_id;
```

Data Output

	package_id [PK] character varying (6)	location character varying (9)
1	KL-001	Varkala
2	KL-002	Kochi
3	KL-006	Munnar
4	KL-005	Vagamon
5	KL-004	Alappuzha
6	KL-009	Thekkadi
7	KL-001	Varkala
8	KL-010	Waynad
9	KL-008	Ponmudi
10	KL-005	Vagamon



#### iv. Query having Boolean operators

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Query Editor

```
1 select hotel_id, hotel_name
2 from hotel
3 where pvt_rating<3 and govt_rating>3;
```

Data Output

	<b>hotel_id</b> [PK] character varying (6)	<b>hotel_name</b> character varying (9)	
1	H-0976	Italica	

#### v. Query having arithmetic operators

Query Editor

```
1 select hotel_name, (pvt_rating+1)
2 from hotel;
```

Data Output

	<b>hotel_name</b> character varying (9)	<b>?column?</b> numeric	
1	DeLuna	5.5	
2	Vmonster	3.5	
3	Skylight	4.0	
4	Seoul	5.5	
5	Italica	3.0	
6	Greenlake	3.5	
7	Lakeview	5.0	
8	Hillpoint	4.0	

vi. A search query using string operators

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Query Editor

```
1 select * from cust_details
2 where First_name like 'j%';
```

Data Output

	id [PK] integer	first_name character varying (8)	last_name character varying (9)	age integer	address character varying (21)	email_id character va
1	1000	jin	Seok	18	tc 12/34, Sweden	jinwwh@gma
2	4000	jungkook	Jeon	48	tc 85/23, new york	jungkook97@
3	5000	jimin	Park	44	tc 77/23, switzerland	jimin07@gm
4	9000	jung	jhope	16	tc 22/32, Ethiopia	jhope1@gma

vii. Between, IN, Not between, Not IN

Query Editor

```
1 select id, First_name, last_name, age
2 from cust_details
3 where age between 20 and 40;
```

Data Output

	id [PK] integer	first_name character varying (8)	last_name character varying (9)	age integer
1	3000	Virat	Kohli	21
2	6000	Devdutt	Padikkal	20
3	10000	suga	min	22


### viii. Set operations

Query Editor	
1	<code>select package_id from cust_details</code>
2	<code>union</code>
3	<code>select package_id from package;</code>

Data Output	
	<code>package_id</code> character varying (6)
1	KL-002
2	KL-005
3	KL-009
4	KL-001
5	KL-004
6	KL-008
7	KL-010
8	KL-006

### ix. Subquery (using EXISTS / NOT EXISTS, ANY, ALL )

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Query Editor	
1	<code>select cost from package</code>
2	<code>where exists</code>
3	<code>(select t_cost from vehicle where t_cost=cost);</code>

Data Output	
	<code>cost</code> character varying (6)
1	1000/-
2	3000/-

x. Distinct

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Query Editor

```
1 select distinct near_by_airport
2 from package;
```

Data Output

	<b>near_by_airport</b> character varying (12) 	
1	Trivandrum	
2	Nedumbassery	
3	Karipur	