

Queries

QUERY1 :- Hotels in Jaipur

```
SELECT * FROM ACCOMMODATION WHERE (CITY='Jaipur');
```

The screenshot shows the pgAdmin 4 interface. On the left, the 'Browser' pane displays a tree view of database objects under 'Servers (2)'. One node is expanded to show 'Databases (1)', which contains '202101208'. Under '202101208', several objects are listed: Casts, Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, wfa, xit, Subscriptions, Login/Group Roles, and Tablespaces. The main pane shows a query editor with the following content:

```
74  SELECT * FROM ACCOMMODATION WHERE (CITY='Jaipur');
75
76
77
78
79
```

Below the query editor is a data grid titled 'Data Output' showing the results of the query:

	accommodation_id [PK] character varying (50)	accommodation_name character varying (50)	accommodation_type character varying (50)	street character varying (50)	landmark character varying (50)	city character varying (50)	state character varying (50)	pincode integer	ch tim
1	JP100	Hotel Silver Pride	Hotel	Tonk Road	Durgapura	Jaipur	Rajasthan	302018	09
2	JP209	Hotel Arco Palace	Hotel	Station Rd	Sindhi Camp	Jaipur	Rajasthan	302006	09
3	JP132	ITC Jaipur	Hotel	Near Ghanta Ghar	Sawai Street	Jaipur	Rajasthan	302001	09

At the bottom of the pgAdmin window, there is a status bar with the text 'Total rows: 3 of 3 Query complete 00:00:00.357' and 'Ln 81, Col 1'. Below the pgAdmin window, the Windows taskbar is visible, showing various pinned icons like File Explorer, Settings, Google Chrome, Microsoft Edge, Notepad, Task View, WhatsApp, and a Microsoft Teams icon with a notification count of 4. The system tray shows the date and time as '24-04-2023 15:50'.

QUERY2:- Room Types of hotels in Jaipur

```
SELECT Accommodation_Name,ROOM_TYPE.* FROM (ACCOMMODATION NATURAL JOIN ROOM_TYPE)
WHERE (CITY='Jaipur');
```

The screenshot shows the pgAdmin 4 interface. On the left, the 'Servers' tree view is expanded to show '202101208' and its sub-nodes: Casts, Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Sales Management, company, public, wfa, xit, Subscriptions, Login/Group Roles, and Tablespaces. The 'Query' tab is selected in the top navigation bar. The query editor contains the following code:

```
1 SET SEARCH_PATH TO WFA;
2
3 SELECT * FROM ACCOMMODATION WHERE (CITY='Jaipur');
4
5 SELECT Accommodation_Name,ROOM_TYPE.* FROM (ACCOMMODATION NATURAL JOIN ROOM_TYPE)
6 WHERE (CITY='Jaipur');
```

The results are displayed in a table titled 'Data Output'. The columns are: accommodation_name, accommodation_id, room_type_id, room_type_name, capacity, bed_type, area, extra_capacity, and total_rooms. The data is as follows:

	accommodation_name	accommodation_id	room_type_id	room_type_name	capacity	bed_type	area	extra_capacity	total_rooms
1	Hotel Silver Pride	JP100	10001	Deluxe Room	2	Double Bed	224	1	5
2	Hotel Silver Pride	JP100	10002	Super Deluxe Room	2	Double Bed	288	0	5
3	Hotel Silver Pride	JP100	10003	Superior Room	2	Double Bed	360	1	10
4	Hotel Arco Palace	JP209	20901	Standard Room	2	Double Bed	300	1	10
5	Hotel Arco Palace	JP209	20902	Business Room	2	Double Bed	300	0	5
6	Hotel Arco Palace	JP209	20903	1BHK With GYM	2	Double Bed	300	1	5
7	ITC Jaipur	JP132	13201	Premium Room	2	King Bed	120	0	10
8	ITC Jaipur	JP132	13202	Deluxue Room	2	Single Bed	150	0	15

Total rows: 8 of 8 | Query complete 00:00:00.072 | Ln 5, Col 1

QUERY3 :- Prices of Particular type of Rooms in Jaipur

```
SELECT Accommodation_Name,Room_Type_Name,ACCOMMODATION_FARES.* FROM (ACCOMMODATION NATURAL  
JOIN ROOM_TYPE NATURAL JOIN ACCOMMODATION_FARES)  
WHERE (CITY='Jaipur');
```

The screenshot shows the pgAdmin 4 interface with a query editor and a results table.

Query Editor:

```
2  
3 SELECT * FROM ACCOMMODATION WHERE (CITY='Jaipur');  
4  
5 SELECT Accommodation_Name,ROOM_TYPE.* FROM (ACCOMMODATION NATURAL JOIN ROOM_TYPE)  
WHERE (CITY='Jaipur');  
6  
7  
8  
9 SELECT Accommodation_Name,Room_Type_Name,ACCOMMODATION_FARES.* FROM (ACCOMMODATION NATURAL JOIN ROOM_TYPE NATURAL JOIN ACCOMMODATION_FARES)  
10 WHERE (CITY='Jaipur');
```

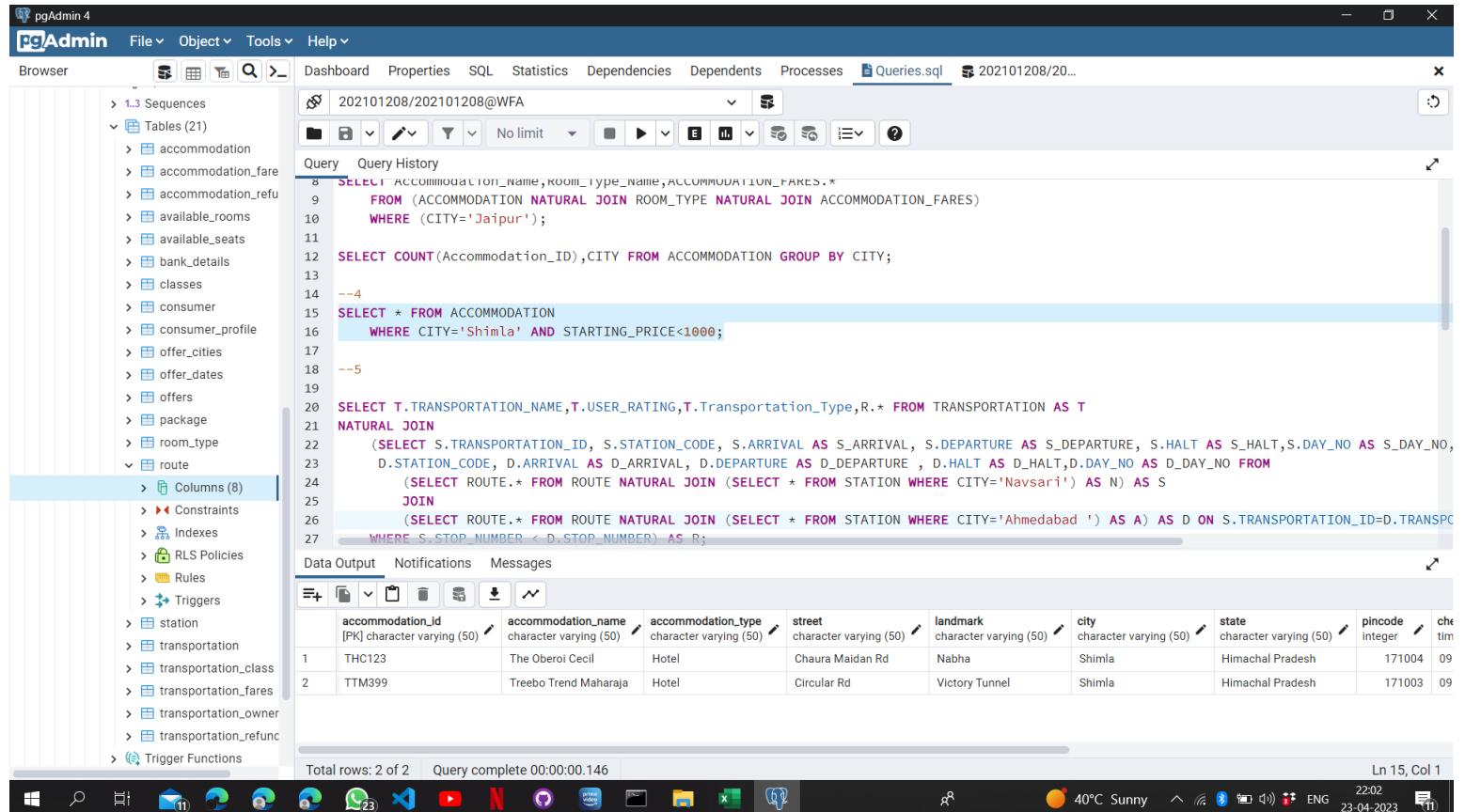
Data Output:

	name (50)	room_type_name character varying (50)	accommodation_id character varying (50)	room_type_id integer	base_price integer	mattresses smallint	breakfast integer	lunch_or_dinner integer	lunch_and_dinner integer	zero_cancellation integer	taxes integer
1	Deluxe Room	JP100		10001	1822	150	400	1500	1000	0	379
2	Super Deluxe Room	JP100		10002	2391	150	300	1500	1000	125	507
3	Superior Room	JP100		10003	2847	150	250	1500	1000	250	592
4	Standard Room	JP209		20901	1226	250	100	250	250	100	277
5	Business Room	JP209		20902	1549	250	200	500	500	200	350
6	1BHK With GYM	JP209		20903	2259	250	200	750	750	250	625
7	Premium Room	JP132		13201	500	100	300	500	700	150	120
8	Deluxue Room	JP132		13202	600	150	0	500	500	250	180

Total rows: 8 of 8 Query complete 00:00:00.068 Ln 8, Col 2

Query 4 :- Hotels of Shimla with starting price less than 1000

```
SELECT * FROM ACCOMMODATION  
WHERE CITY='Shimla' AND STARTING_PRICE<1000;
```



The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** Includes File, Object, Tools, Help, and a search bar.
- Left Sidebar (Browser):** Shows the database schema structure, including 1.3 Sequences, Tables (21), and various tables like accommodation, room_type, etc.
- Central Area:**
 - Query History:** Displays the executed SQL query.
 - Code Editor:** The query is:

```
8  SELECT ACCOMMODATION_NAME,ROOM_TYPE_NAME,ACCOMMODATION_FARES.*  
9   FROM (ACCOMMODATION NATURAL JOIN ROOM_TYPE NATURAL JOIN ACCOMMODATION_FARES)  
10  WHERE (CITY='Jaipur');  
11  
12  SELECT COUNT(Accommodation_ID),CITY FROM ACCOMMODATION GROUP BY CITY;  
13  
--4  
14  SELECT * FROM ACCOMMODATION  
15  WHERE CITY='Shimla' AND STARTING_PRICE<1000;  
16  
--5  
17  
18  
19  
20  SELECT T.TRANSPORTATION_NAME,T.USER_RATING,T.Transportation_Type,R.* FROM TRANSPORTATION AS T  
21  NATURAL JOIN  
22    (SELECT S.TRANSPORTATION_ID,S.STATION_CODE,S.ARRIVAL AS S_ARRIVAL,S.DEPARTURE AS S_DEPARTURE,S.HALT AS S_HALT,S.DAY_NO AS S_DAY_NO,  
23     D.STATION_CODE,D.ARRIVAL AS D_ARRIVAL,D.DEPARTURE AS D_DEPARTURE,D.HALT AS D_HALT,D.DAY_NO AS D_DAY_NO FROM  
24    (SELECT ROUTE.* FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Navsari') AS N) AS S  
25    JOIN  
26      (SELECT ROUTE.* FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Ahmedabad') AS A) AS D ON S.TRANSPORTATION_ID=D.TRANSP  
27  WHERE S.STOP_NUMBER < D.STOP_NUMBER) AS R;
```

 - Data Output:** Shows the results of the query, which are two rows of hotel data.
- Bottom Status Bar:** Shows "Total rows: 2 of 2" and "Query complete 00:00:00.146".
- System Tray:** Shows system icons including a battery level of 40%, a date/time of 23-04-2023 22:02, and a language setting of ENG.

Query 5 :- Transportation Facilities available between Ahmedabad and Navsari

```
SELECT T.TRANSPORTATION_NAME,T.USER_RATING,T.Transportation_Type,R.* FROM TRANSPORTATION AS T
NATURAL JOIN
(SELECT S.TRANSPORTATION_ID, S.STATION_CODE, S.ARRIVAL AS S_ARRIVAL, S.DEPARTURE AS S_DEPARTURE, S.HALT
AS S_HALT,S.DAY_NO AS S_DAY_NO,
D.STATION_CODE, D.ARRIVAL AS D_ARRIVAL, D.DEPARTURE AS D_DEPARTURE , D.HALT AS D_HALT,D.DAY_NO AS
D_DAY_NO FROM
(SELECT ROUTE.* FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Navsari') AS N) AS S
JOIN
(SELECT ROUTE.* FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Ahmedabad ') AS A) AS D
ON S.TRANSPORTATION_ID=D.TRANSPORTATION_ID
WHERE S.STOP_NUMBER < D.STOP_NUMBER) AS R;
```

```
--4
15 SELECT * FROM ACCOMMODATION
16 WHERE CITY='Shimla' AND STARTING_PRICE<1000;
17
18 --5
19
20 SELECT T.TRANSPORTATION_NAME,T.USER_RATING,T.Transportation_Type,R.* FROM TRANSPORTATION AS T
21 NATURAL JOIN
22 (SELECT S.TRANSPORTATION_ID, S.STATION_CODE, S.ARRIVAL AS S_ARRIVAL, S.DEPARTURE AS S_DEPARTURE, S.HALT AS S_HALT,S.DAY_NO AS S_DAY_NO,
23 D.STATION_CODE, D.ARRIVAL AS D_ARRIVAL, D.DEPARTURE AS D_DEPARTURE , D.HALT AS D_HALT,D.DAY_NO AS D_DAY_NO FROM
24 (SELECT ROUTE.* FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Navsari') AS N) AS S
25 JOIN
26 (SELECT ROUTE.* FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Ahmedabad ') AS A) AS D ON S.TRANSPORTATION_ID=D.TRANSP
27 WHERE S.STOP_NUMBER < D.STOP_NUMBER) AS R;
28
29
30 --6
31 SELECT P.* ,TC.CLASS_NAME FROM
32 (SELECT T.TRANSPORTATION_NAME,T.USER_RATING,R.* FROM TRANSPORTATION AS T
33 NATURAL JOIN
Data Output Notifications Messages
Ln 20, Col 1
```

transportation_name	user_rating	transportation_type	transportation_id	station_code	s_arrival	s_departure	s_halt	s_sr
ARAVALLI EXP	10	RAIL	14702	NVS	00:11:00	00:13:00	00:02:00	
Karnavati Express	8	RAIL	23104	NVS	16:50:00	16:52:00	00:02:00	

Total rows: 2 of 2 Query complete 00:00:00.088

40°C Sunny 22:06 23-04-2023 ENG

Query 6 :- Classes available in particular type of transportation between Ahmedabad and Navsari

```
SELECT P.* ,TC.CLASS_NAME FROM
(SELECT T.TRANSPORTATION_NAME ,T.USER_RATING ,R.* FROM TRANSPORTATION AS T
NATURAL JOIN
(SELECT S.TRANSPORTATION_ID ,S.STATION_CODE ,S.ARRIVAL AS S_ARRIVAL ,S.DEPARTURE AS S_DEPARTURE ,
S.HALT AS S_HALT,S.DAY_NO AS S_DAY_NO ,S.KM_FROM_ORIGIN AS S_KM_FROM_ORIGIN ,
D.STATION_CODE ,D.ARRIVAL AS D_ARRIVAL ,D.DEPARTURE AS D_DEPARTURE ,D.HALT AS D_HALT,D.DAY_NO AS
D_DAY_NO,D.KM_FROM_ORIGIN AS D_KM_FROM_ORIGIN FROM
(SELECT * FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Navsari') AS N) AS S
JOIN
(SELECT * FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Ahmedabad ') AS A) AS D ON
S.TRANSPORTATION_ID=D.TRANSPORTATION_ID
WHERE S.STOP_NUMBER < D.STOP_NUMBER ) AS R ) AS P
NATURAL JOIN
(TRANSPORTATION_CLASS NATURAL JOIN CLASSES) AS TC;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** File, Object, Tools, Help.
- Left Sidebar (Browser):** Shows tables (21), sequences, constraints, indexes, RLS Policies, rules, triggers, stations, transports, transportation classes, transportation fares, transportation owners, and transportation refuncs.
- Central Area:**
 - Query Tab:** Contains the SQL code for Query 6.
 - Data Output Tab:** Displays the results of the query, showing 5 rows of data.
- Bottom Status Bar:** Total rows: 5 of 5, Query complete 00:00:00.222, Ln 31, Col 1.
- System Icons:** Taskbar icons for various applications like File Explorer, Edge, and File Manager.
- System Status:** 40°C Sunny, 22:08, ENG, 23-04-2023.

transportation_name	user_rating	transportation_id	station_code	s_arrival	s_departure	s_halt	s_day_no	s_km_from_origin
ARAVALI EXP	10	14702	NVS	00:11:00	00:13:00	00:02:00	2	
ARAVALI EXP	10	14702	NVS	00:11:00	00:13:00	00:02:00	2	
Karnavati Express	8	23104	NVS	16:50:00	16:52:00	00:02:00	1	
Karnavati Express	8	23104	NVS	16:50:00	16:52:00	00:02:00	1	
Karnavati Express	8	23104	NVS	16:50:00	16:52:00	00:02:00	1	

Query 7 :- Fares of Particular class in transportation facilities between Ahmedabad and Navsari

```
SELECT PP.*,(D_KM_FROM_ORIGIN-S_KM_FROM_ORIGIN)*BASE_PRICE AS  
BASE_PRICE,(D_KM_FROM_ORIGIN-S_KM_FROM_ORIGIN)*TAXES AS TAXES,  
TF.BREAKFAST,TF.LUNCH,TF.DINNER,TF.ZERO_CANCELLATION FROM  
(SELECT P.* ,TC.CLASS_NAME FROM  
(SELECT T.TRANSPORTATION_NAME,T.USER_RATING,R.* FROM TRANSPORTATION AS T  
NATURAL JOIN  
(SELECT S.TRANSPORTATION_ID, S.STATION_CODE, S.ARRIVAL AS S_ARRIVAL, S.DEPARTURE AS S_DEPARTURE,  
S.HALT AS S_HALT,S.DAY_NO AS S_DAY_NO, S.KM_FROM_ORIGIN AS S_KM_FROM_ORIGIN,  
D.STATION_CODE, D.ARRIVAL AS D_ARRIVAL, D.DEPARTURE AS D_DEPARTURE , D.HALT AS D_HALT,D.DAY_NO AS  
D_DAY_NO,D.KM_FROM_ORIGIN AS D_KM_FROM_ORIGIN FROM  
(SELECT * FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Navsari') AS A) AS S  
JOIN  
(SELECT * FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Ahmedabad ') AS A) AS D ON  
S.TRANSPORTATION_ID=D.TRANSPORTATION_ID  
WHERE S.STOP_NUMBER < D.STOP_NUMBER) AS R ) AS P  
NATURAL JOIN  
(TRANSPORTATION_CLASS NATURAL JOIN CLASSES) AS TC AS PP  
NATURAL JOIN  
TRANSPORTATION_FARES AS TF ;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** File, Object, Tools, Help.
- Browser:** Shows tables like accommodation, accommodation_fare, etc., and routes.
- Query Editor:** Contains the SQL code for Query 7.
- Results:** A table showing the fare details for different routes. The columns are:
 - transportation_name
 - user_rating
 - transportation_id
 - station_code
 - s_arrival
 - s_departure
 - s_halt
 - s_day_no
 - s_km_from_
- Data:** The table contains 13 rows of data.
- Status Bar:** Total rows: 13 of 13, Query complete 00:00:00.239, Ln 45, Col 1.
- System Tray:** Shows system status including temperature (40°C), battery level, and network connection.

Query 8 :-

Accommodation Prices of All Offers

```
CREATE VIEW PAP AS
```

```
SELECT OFFER_ID, PACKAGE_ID, SUM(BASE_PRICES) AS BASE_PRICES, SUM(TAX_AMT) AS TAX_AMT FROM
(SELECT OFFER_ID, PACKAGE_ID, ACCOMMODATION_ID, SUM(BASE_PRICE*DAYS)/2 AS BASE_PRICES,
SUM(TAXES*DAYS)/2 AS TAX_AMT
FROM OFFER_ACcomMODATION
NATURAL JOIN ACCOMMODATION_FARES
GROUP BY OFFER_ID, PACKAGE_ID, ACCOMMODATION_ID) AS AF GROUP BY OFFER_ID, PACKAGE_ID;
```

```
SELECT * FROM PAP;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- File Object Tools Help** menu bar.
- Browser** pane on the left showing database objects: Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, wfa (selected), Aggregates, Collations, Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, and Tables (36). The accommodation table is currently selected.
- Query** pane at the top right containing the query code:

```
1 SET SEARCH_PATH TO WFA;
2
```
- Data Output** pane showing the results of the query:

	offer_id	package_id	base_prices	tax_amt
1	30101	30100	8846	1936
2	30102	30100	19485	3909
3	30103	30100	26881	6087
4	30104	30100	6196	1400
5	30105	30100	6580	1449
6	30201	30200	38612	9066
7	30202	30200	3800	1224
8	30401	30400	8441	2702
9	30502	30500	2800	674

- Total rows: 9 of 9 Query complete 00:00:01.180 Ln 10, Col 1** status message at the bottom.

Query 9 :-

Source Travel Information of All Offers

CREATE VIEW RT AS

```
SELECT OFFER_ID, PACKAGE_ID, R.TRANSPORTATION_ID, CLASS_ID, FROM_STATION, stop_number AS  
FROM_stop_no, km_from_origin AS FROM_km  
FROM (SELECT OFFER_ID, PACKAGE_ID, TRANSPORTATION_ID, CLASS_ID, FROM_STATION  
FROM OFFER_TRANSPORTATION) AS OT JOIN  
(SELECT * FROM ROUTE ) AS R  
ON (OT.TRANSPORTATION_ID = R.TRANSPORTATION_ID  
AND OT.FROM_STATION = R.STATION_CODE);
```

SELECT * FROM RT;

The screenshot shows the pgAdmin 4 interface with the following details:

- File Bar:** File, Object, Tools, Help.
- Toolbar:** Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, wfa, Aggregates, Collations, Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, Tables, Trigger Functions, Types, Views (4).
- Current Tab:** QUE.sql*
- Query Editor:** Displays the SQL code for creating the view RT.
- Data Output:** Shows the results of the query execution, displaying 72 rows of travel information.

offer_id	package_id	transportation_id	class_id	from_station	from_stop_no	from_km	
1	30101	30100	22977	10	JP	1	0
2	30101	30100	1478	31	JPR	1	0
3	30101	30100	12467	13	BKN	2	319
4	30101	30100	22977	10	JP	1	0
5	30101	30100	1478	31	JPR	1	0
6	30101	30100	12467	13	BKN	2	319
7	30102	30100	164403	32	GTM	1	0
8	30102	30100	UK208	41	UDZ	1	0
9	30102	30100	KC568	42	KMBR	1	0
10	30102	30100	176454	32	CHTR	1	0
11	30102	30100	5699	32	ARD	1	0
12	30102	30100	164403	32	GTM	1	0
13	30102	30100	UK208	41	UDZ	1	0
14	30102	30100	KC568	42	KMBR	1	0
15	30102	30100	176454	32	CHTR	1	0
16	30102	30100	5699	32	ARD	1	0

- Bottom Status Bar:** Total rows: 72 of 72, Query complete 00:00:00.124, Ln 35, Col 1.
- System Icons:** Windows, Task View, Start, File Explorer, Settings, Edge, Taskbar icons, and system status indicators.

Query 10 :-

Destination Travel Information of All Offers

CREATE VIEW RF AS

```
SELECT OFFER_ID, PACKAGE_ID, R.TRANSPORTATION_ID, CLASS_ID, TO_STATION, stop_number AS  
TO_stop_no, km_from_origin AS TO_km FROM  
(SELECT OFFER_ID, PACKAGE_ID, TRANSPORTATION_ID, CLASS_ID, TO_STATION  
FROM OFFER_TRANSPORTATION) AS OTT JOIN  
(SELECT * FROM ROUTE ) AS R  
ON OTT.TRANSPORTATION_ID = R.TRANSPORTATION_ID  
AND OTT.TO_STATION = R.STATION_CODE;  
SELECT * FROM RF;
```

pgAdmin 4

File Object Tools Help

Browser Dashboard Properties SQL Statistics Dependencies Dependents Processes QUE.sql*

202101208/202101208@WFA

No limit

Query History

```
32 ON (OTT.TRANSPORTATION_ID = R.TRANSPORTATION_ID)  
33 AND OTT.FROM_STATION = R.STATION_CODE);  
34  
35 SELECT * FROM RT;  
36  
37 CREATE VIEW RF AS
```

Data Output Messages Notifications

	offer_id	package_id	transportation_id	class_id	to_station	to_stop_no	to_km
1	30101	30100	22977	10	JU	3	313
2	30101	30100	1478	31	BKR	2	334
3	30101	30100	12467	13	JP	4	701
4	30101	30100	22977	10	JU	3	313
5	30101	30100	1478	31	BKR	2	334
6	30101	30100	12467	13	JP	4	701
7	30102	30100	164403	32	UDP	2	260
8	30102	30100	UK208	41	KMBR	2	85
9	30102	30100	KC568	42	CHTR	2	152
10	30102	30100	176454	32	ABR	2	255
11	30102	30100	5699	32	GTM	2	230
12	30102	30100	164403	32	UDP	2	260
13	30102	30100	UK208	41	KMBR	2	85
14	30102	30100	KC568	42	CHTR	2	152
15	30102	30100	5699	32	GTM	2	230
16	30102	30100	1478	12	AH	10	973

Total rows: 71 of 71 Query complete 00:00:00.088

Ln 37, Col 1

Windows Taskbar icons: File Explorer, Settings, Google Chrome, Microsoft Edge, Notepad, File Manager, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Microsoft Access, Microsoft Word, Microsoft Word, Microsoft Word.

System tray icons: Network, Battery, ENG, 24-04-2023, 02:19.

Query 11 :-

Transportation Prices of All Offers

CREATE VIEW PTP AS

```
(SELECT OFFER_ID, PACKAGE_ID, SUM(BASE_PRICES) AS TRAN_BASE_PRICE, SUM(TAXES_AMT) AS TRAN_TAXES FROM
(SELECT OFFER_ID, PACKAGE_ID, TRANSPORTATION_ID, CLASS_ID, BASE_PRICE*(RTF.TO_km - RTF.FROM_km) AS
BASE_PRICES,
(TAXES)*(RTF.TO_km - RTF.FROM_km) AS TAXES_AMT FROM
((SELECT * FROM RT
NATURAL JOIN RF) AS RTF
NATURAL JOIN TRANSPORTATION_FARES) AS RTF WHERE TO_STOP_NO > FROM_STOP_NO) AS OTF
GROUP BY OFFER_ID, PACKAGE_ID);
```

SELECT * FROM PTP;

The screenshot shows the pgAdmin 4 interface with the following details:

- File Bar:** File, Object, Tools, Help.
- Toolbar:** Includes icons for Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), company, public, wfa, Aggregates, Collations, Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, and Tables (36).
- Browser Panel:** Shows the schema tree under the 'wfa' schema, including tables like accommodation, accommodation_add_on, accommodation_booking, accommodation_fares, accommodation_refund_rules, available_rooms, and available_seats.
- Query Editor:** A tab labeled '202101208/202101208@wfa*' contains the SQL code for creating the view PTP. The code is as follows:

```
1 SET SEARCH_PATH TO WFA;
2
3 CREATE VIEW PTP AS
4 (SELECT OFFER_ID, PACKAGE_ID, SUM(BASE_PRICES) AS TRAN_BASE_PRICE, SUM(TAXES_AMT) AS TRAN_TAXES FROM
5 (SELECT OFFER_ID, PACKAGE_ID, TRANSPORTATION_ID, CLASS_ID, BASE_PRICE*(RTF.TO_km - RTF.FROM_km) AS
BASE_PRICES,
6 (TAXES)*(RTF.TO_km - RTF.FROM_km) AS TAXES_AMT FROM
7 ((SELECT * FROM RT
NATURAL JOIN RF) AS RTF
NATURAL JOIN TRANSPORTATION_FARES) AS RTF WHERE TO_STOP_NO > FROM_STOP_NO) AS OTF
GROUP BY OFFER_ID, PACKAGE_ID);
```

- Data Output:** The results of the query are displayed in a table with columns: offer_id, package_id, tran_base_price, and tran_taxes. The data consists of 9 rows:

	offer_id	package_id	tran_base_price	tran_taxes
1	30101	30100	5686	1023.48004066944
2	30102	30100	13239.2000203133	2383.74001824856
3	30103	30100	36896.7992296219	6638.32016265392
4	30104	30100	21208	3817.44003677368
5	30105	30100	35789.600025177	6444.23987412453
6	30201	30200	56438.1014728546	10166.5800408125
7	30202	30200	40691.6001281738	7328.64004230499
8	30401	30400	57729.1600246429	10389.4398880005
9	30502	30500	55444	9979.91985344887

- Status Bar:** Shows system information including temperature (33°C), battery status (Smoke), and system date/time (24-04-2023, 15:26).

Query 12 :-

Total Prices of Each Offer

```
SELECT PAP.OFFER_ID, PAP.PACKAGE_ID, PAP.BASE_PRICES AS TOTAL_ACCM, PTP.TRAN_BASE_PRICE AS TOTAL_TRAN,
(PAP.TAX_AMT + PTP.TRAN_TAXES) AS TOTAL_TAXES,
PAP.BASE_PRICES + PTP.TRAN_BASE_PRICE + (PAP.TAX_AMT + PTP.TRAN_TAXES) AS TOTAL_PRICE FROM
PAP JOIN PTP ON PAP.OFFER_ID = PTP.OFFER_ID;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- File Object Tools Help**: The top menu bar.
- Browser**: The left sidebar containing a tree view of database objects under the "wfa" schema, including Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, and wfa. Under wfa, there are Aggregates, Collations, Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, and Tables (36).
- Dashboard Properties SQL Statistics Dependencies Dependents Processes**: The top navigation bar within the main window.
- Query History**: A dropdown menu showing the history of queries run in the current session.
- Query**: The main query editor area containing the SQL code for calculating total prices.
- Data Output**: The results table showing the output of the query.
- Messages Notifications**: Buttons for monitoring the query's progress.
- Table Headers** (Data Output): offer_id, package_id, total_accm, total_tran, total_taxes, total_price.
- Table Data** (Data Output): 9 rows of data.
- Total rows: 9 of 9 Query complete 00:00:00.423 Ln 3, Col 1**: Status message at the bottom.
- System Tray**: Shows icons for battery, signal, volume, and date/time (24-04-2023, 15:27).

offer_id	package_id	total_accm	total_tran	total_taxes	total_price
1	30101	30100	8846	5686	2959.48004066944
2	30102	30100	19485	13239.2000203133	6292.74001824856
3	30103	30100	26881	36896.7992296219	12725.3201626539
4	30104	30100	6196	21208	5217.44003677368
5	30105	30100	6580	35789.600025177	7893.23987412453
6	30201	30200	38612	56438.1014728546	19232.5800408125
7	30202	30200	3800	40691.6001281738	8552.64004230499
8	30401	30400	8441	57729.1600246429	13091.4398880005
9	30502	30500	2800	55444	10653.9198534489

Query 13 :- Details of Sole Accommodation Booking

```
SELECT CD.* , INVOICE_ID FROM
(SELECT * FROM
(SELECT BOOKING_ID FROM BOOKING
EXCEPT
SELECT BACKEND_BOOKING_ID FROM PACKAGE_BOOKING_DETAILS) AS AB
NATURAL JOIN ACCOMMODATION_BOOKING) AS CD
NATURAL JOIN BOOKING;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** Includes File, Object, Tools, Help, Browser, Dashboard, Properties, SQL, Statistics, Dependencies, Dependents, Processes, and Queries.sql.
- Browser Panel:** Shows a tree view of database objects under "Tables (33)".
- SQL Tab:** Contains the SQL code for Query 13.
- Data Output Tab:** Displays the results of the query as a table.
- System Tray:** Shows system icons and status information (40°C Sunny, 02:28, 24-04-2023).

booking_id	room_type_id	accommodation_id	check_in_date	check_out_date	no_of_rooms	no_of_nights	booking_status	invoice_id	
1	9250143	46708	MAL467	2023-05-15	2023-05-17	1	2	Booked	8G2B7C1F6E
2	1523847	12301	JSM123	2023-05-15	2023-05-16	1	1	Booked	1B7E5F0G9D
3	7130825	39902	TTM399	2023-05-19	2023-05-20	1	1	Booked	9J0I5D4H3A
4	4065129	38601	HMT386	2023-05-15	2023-05-16	1	1	Booked	2H5C4A8J6I
5	5398201	82302	MBR823	2023-05-18	2023-05-20	1	2	Booked	3F6D1G9B0J
6	6710235	12301	THC123	2023-05-29	2023-05-30	1	1	Booked	0E4I7A8H3D

Query 14 :- INVOICE DETAILS OF ONLY ACCOMMODATION BOOKING

```
CREATE VIEW O_ACCM_B AS
SELECT CD.* ,INVOICE_ID FROM
(SELECT * FROM
(SELECT BOOKING_ID FROM BOOKING
EXCEPT
SELECT BACKEND_BOOKING_ID FROM PACKAGE_BOOKING_DETAILS) AS AB
NATURAL JOIN ACCOMMODATION_BOOKING) AS CD
NATURAL JOIN BOOKING;
--  
SELECT * FROM O_ACCM_B ;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** File, Object, Tools, Help.
- Browser:** FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, Tables (33). The 'Tables' node is expanded, showing sub-nodes like accommodation, accommodation.add., accommodation_bool, accommodation_fare, accommodation_refu, available_rooms, available_seats, bank_details, booking, classes, consumer, consumer_profile, invoice_details, offer_accommodation, offer_cities, offer_dates, offer_transportation, offers, package, package_booking.
- Query Editor:** Shows the SQL code for Query 14. The last two lines of the query, which are commented out, are highlighted in blue: `95 SELECT * FROM O_ACCM_B ;` and `96 --`.
- Data Output:** A table showing the results of the query. The columns are: booking_id, room_type_id, accommodation_id, check_in_date, check_out_date, no_of_rooms, no_of_nights, booking_status, invoice_id. The data consists of six rows:

	booking_id	room_type_id	accommodation_id	check_in_date	check_out_date	no_of_rooms	no_of_nights	booking_status	invoice_id
1	9250143	46708	MAL467	2023-05-15	2023-05-17	1	2	Booked	8G2B7C1F6E
2	1523847	12301	JSM123	2023-05-15	2023-05-16	1	1	Booked	1B7E3FG9D
3	7130825	39902	TTM399	2023-05-19	2023-05-20	1	1	Booked	9J0I504H3A
4	4065129	38601	HMT386	2023-05-15	2023-05-16	1	1	Booked	2H5C4A8J6I
5	5398201	82302	MBR823	2023-05-18	2023-05-20	1	2	Booked	3F6D1G9B0J
6	6710235	12301	THC123	2023-05-29	2023-05-30	1	1	Booked	0E4I7A8H3D

- Status Bar:** Total rows: 6 of 6, Query complete 00:00:00.116, Ln 95, Col 1.
- System Tray:** Shows icons for search, file, 12 notifications, WhatsApp, YouTube, Netflix, Microsoft Edge, Excel, and a battery icon.
- System Icons:** Shows the date (24-04-2023), time (02:24), temperature (40°C), and weather (Sunny).

Query 15:- ONLY ACCOMMODATION BOOKING PRICE DETAILS

```
SELECT * FROM
(SELECT * FROM O_ACCM_B
NATURAL JOIN ACCOMMODATION_FARES) AS AF
JOIN ACCOMMODATION_ADD_ON AS AD ON (AF.BOOKING_ID=AD.BOOKING_ID);
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** File, Object, Tools, Help.
- Browser:** Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, wfa, Aggregates, Collations, Domains, FTS Configuration, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, Tables (36). The "Tables (36)" node is currently selected.
- Query Editor:** Shows the SQL query for selecting booking details from O_ACCM_B, ACCOMMODATION_FARES, and ACCOMMODATION_ADD_ON tables.
- Data Output:** Displays the results of the query in a tabular format. The columns are: room_type_id, accommodation_id, booking_id, check_in_date, check_out_date, no_of_rooms, no_of_nights, booking_status, invoice_id, base_price, and mattresses. The data shows 6 rows of booking information.
- Bottom Status Bar:** Total rows: 6 of 6, Query complete 00:00:00.094, Ln 3, Col 1.
- System Tray:** Shows system icons for battery level (33°C Smoke), search, file explorer, and other system applications.
- System Bar:** Shows language (ENG IN), network connectivity, date (24-04-2023), and time (15:49).

Query 16:- Price distribution

```
SELECT *,(FF.TOTAL_AMT+ FF.TAXES) AS GRAND_TOTAL FROM
(SELECT F.*,(F.Mattresses+F.BASE_PRICE+F.BREAKFAST + F.LUNCH_OR_DINNER + F.DINNER + F.ZERO_CANCELLATION)
AS TOTAL_AMT FROM
(SELECT INVOICE_ID,AF.BASE_PRICE,
(AF.BREAKFAST*AD.BREAKFAST)AS BREAKFAST,
(AF.LUNCH_OR_DINNER*AD.LUNCH_OR_DINNER) AS LUNCH_OR_DINNER,
(AF.LUNCH_AND_DINNER*AD.DINNER) AS DINNER,
(AF.ZERO_CANCELLATION*AD.ZERO_CANCELLATION) AS ZERO_CANCELLATION,
(AF.Mattresses*AD.No_Of_Mattresses) AS Mattresses,
AF.TAXES FROM
(SELECT * FROM O_ACCM_B
NATURAL JOIN ACCOMMODATION_FARES) AS AF
JOIN ACCOMMODATION_ADD_ON AS AD ON (AF.BOOKING_ID=AD.BOOKING_ID) ) AS F) AS FF ;
```

The screenshot shows the pgAdmin 4 interface with the following details:

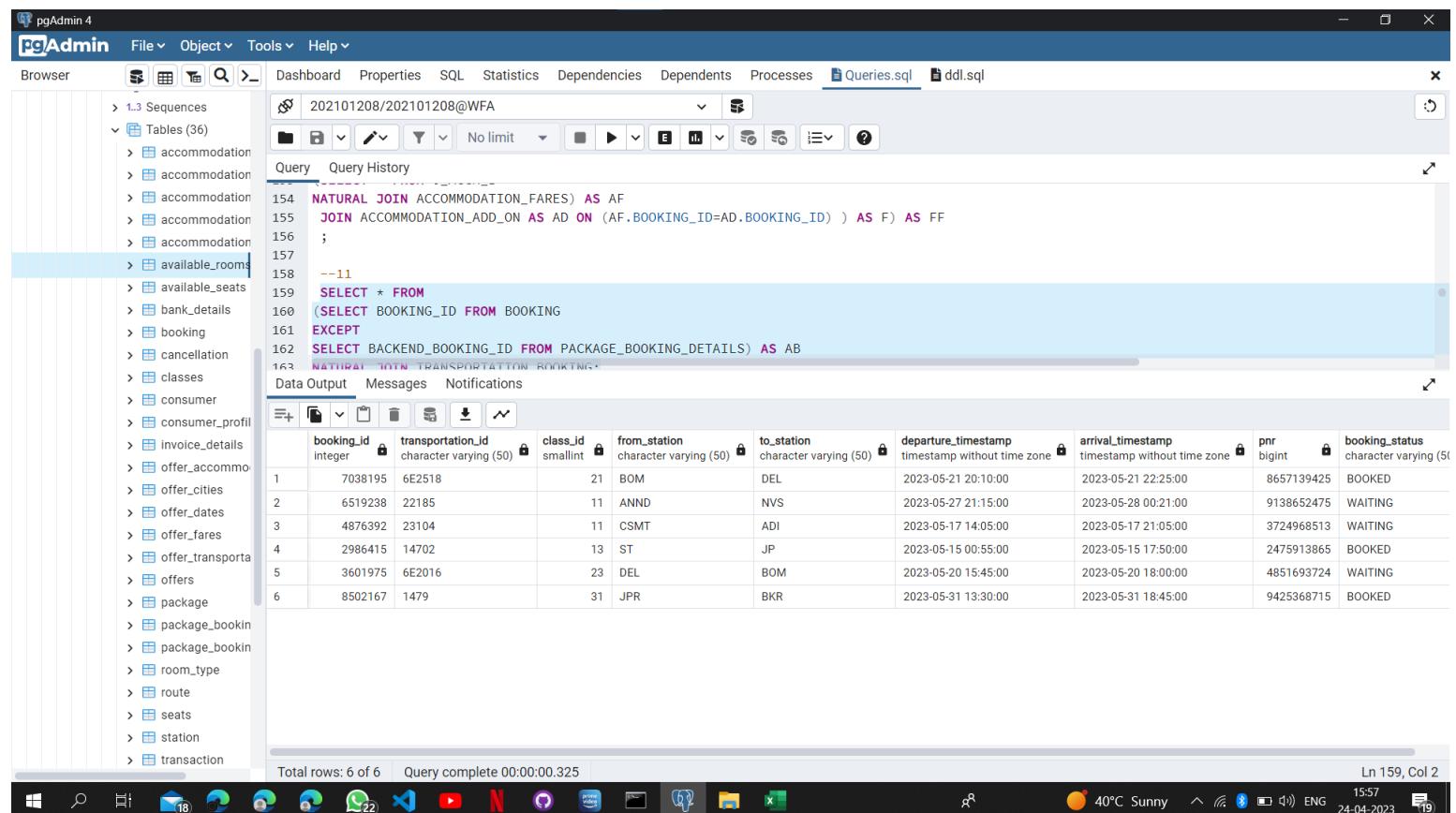
- Toolbar:** Includes File, Object, Tools, Help, Browser, and several icons for database management.
- Connections:** A dropdown menu showing "202101208/202101208@WFA".
- Queries Tab:** Shows the current query being run, labeled "143 --10".
- Code Area:** Displays the SQL code for Query 16, including all the SELECT statements and joins.
- Data Output:** A table showing the results of the query. The columns are: invoice_id, base_price, breakfast, lunch_or_dinner, dinner, zero_cancellation, mattresses, taxes, total_amt, and grand_total. The data consists of 6 rows.

	invoice_id	base_price	breakfast	lunch_or_dinner	dinner	zero_cancellation	mattresses	taxes	total_amt	grand_total
1	8G2B7C1F6E	4255	0	0	0	250	0	1107	4505	5612
2	1B7E3F0G9D	1200	0	0	500	0	0	676	1700	2376
3	9J015D4H3A	300	0	500	0	150	150	100	1100	1200
4	2H5C4A8J6I	400	0	300	0	0	0	120	700	820
5	3F6D1G9B0J	600	0	350	400	0	0	180	1350	1530
6	0E417A8H3D	500	300	0	700	150	0	120	1650	1770

- Bottom Status Bar:** Shows "Total rows: 6 of 6" and "Query complete 00:00:00.082".
- System Icons:** Standard Windows icons for taskbar, including file explorer, browser, and search.
- System Information:** Shows system status including temperature (40°C), battery level, and network connection.

Query 17:- ONLY TRANSPORTATION BOOKING PRICE DETAILS

```
SELECT * FROM
(SELECT BOOKING_ID FROM BOOKING
EXCEPT
SELECT BACKEND_BOOKING_ID FROM PACKAGE_BOOKING_DETAILS) AS AB
NATURAL JOIN TRANSPORTATION_BOOKING;
```



```
pgAdmin 4
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** Includes File, Object, Tools, Help, and a search bar.
- Menu Bar:** Browser, Dashboard, Properties, SQL, Statistics, Dependencies, Dependents, Processes, Queries.sql, and ddl.sql.
- Left Panel (Browser):** Shows a tree view of database objects, including 1.3 Sequences, Tables (36), and various tables like accommodation, available_rooms, available_seats, bank_details, booking, cancellation, classes, consumer, consumer_profil, invoice_details, offer_accommo, offer_cities, offer_dates, offer_fares, offer_transports, offers, package, package_bookin, package_bookin, room_type, route, seats, station, and transaction.
- Central Panel (Query Editor):** Displays the SQL query for Query 17, numbered from 154 to 163. The query uses NATURAL JOIN to combine data from ACCOMMODATION_FARES, ACCOMMODATION_ADD_ON, and TRANSPORTATION_BOOKING.
- Right Panel (Results):** Shows a table with 6 rows of data, each representing a transportation booking. The columns include booking_id, transportation_id, class_id, from_station, to_station, departure_timestamp, arrival_timestamp, pnr, and booking_status.
- Bottom Status Bar:** Shows "Total rows: 6 of 6", "Query complete 00:00:00.325", "Ln 159, Col 2", and system icons for weather (40°C Sunny), battery, signal, and date/time (24-04-2023).

	booking_id	transportation_id	class_id	from_station	to_station	departure_timestamp	arrival_timestamp	pnr	booking_status
1	7038195	6E2518	21	BOM	DEL	2023-05-21 20:10:00	2023-05-21 22:25:00	8657139425	BOOKED
2	6519238	22185	11	ANND	NVS	2023-05-27 21:15:00	2023-05-28 00:21:00	9138652475	WAITING
3	4876392	23104	11	CSMT	ADI	2023-05-17 14:05:00	2023-05-17 21:05:00	3724968513	WAITING
4	2986415	14702	13	ST	JP	2023-05-15 00:55:00	2023-05-15 17:50:00	2475913865	BOOKED
5	3601975	6E2016	23	DEL	BOM	2023-05-20 15:45:00	2023-05-20 18:00:00	4851693724	WAITING
6	8502167	1479	31	JPR	BKR	2023-05-31 13:30:00	2023-05-31 18:45:00	9425368715	BOOKED

Query 18:- Transportation Details with Amenities

```
CREATE VIEW O_TRANS_B AS
SELECT CD.* , INVOICE_ID FROM
(SELECT * FROM
(SELECT BOOKING_ID FROM BOOKING
EXCEPT
SELECT BACKEND_BOOKING_ID FROM PACKAGE_BOOKING_DETAILS) AS AB
NATURAL JOIN TRANSPORTATION_BOOKING) AS CD
NATURAL JOIN BOOKING
;

SELECT * FROM O_TRANS_B ;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- Toolbar:** Includes File, Object, Tools, Help, Dashboard, Properties, SQL, Statistics, Dependencies, Dependents, Processes, Queries.sql, and ddl.sql.
- Query Editor:** Shows the executed SQL code for creating the view O_TRANS_B.
- Data Output:** Displays the results of the query, showing 6 rows of transportation booking details.

booking_id	transportation_id	class_id	from_station	to_station	departure_timestamp	arrival_timestamp	pnr	booking_status	invoice_id	
1	7038195	6E2518	21	BOM	DEL	2023-05-21 20:10:00	2023-05-21 22:25:00	8657139425	BOOKED	2J4E6F8D9G
2	6519238	22185	11	ANND	NVS	2023-05-27 21:15:00	2023-05-28 00:21:00	9138652475	WAITING	6F3D9G2J1E
3	4876392	23104	11	CSMT	ADI	2023-05-17 14:05:00	2023-05-17 21:05:00	3724968513	WAITING	7H0C8IB5B3G
4	2986415	14702	13	ST	JP	2023-05-15 00:55:00	2023-05-15 17:50:00	2475913865	BOOKED	5B7A0H1C8I
5	3601975	6E2016	23	DEL	BOM	2023-05-20 15:45:00	2023-05-20 18:00:00	4851693724	WAITING	4A1J6E9F7D
6	8502167	1479	31	JPR	BKR	2023-05-31 13:30:00	2023-05-31 18:45:00	9425368715	BOOKED	3G9IIB5C7A

Total rows: 6 of 6 Query complete 00:00:00.157 Ln 175, Col 1

System tray icons include: Windows, Search, Task View, Start, Mail (18), Calendar (22), WhatsApp (22), YouTube, Netflix, Microsoft Edge, File Explorer, Excel, and a battery icon.

System status bar: 40°C Sunny, 16:01, 24-04-2023, ENG, 19.

Query 19:- Price distribution

```
CREATE VIEW RFB AS
SELECT BOOKING_ID,R.TRANSPORTATION_ID,CLASS_ID,FROM_STATION,INVOICE_ID,stop_number AS
FROM_stop_no,km_from_origin AS FROM_km
FROM (SELECT BOOKING_ID,TRANSPORTATION_ID,CLASS_ID,FROM_STATION,INVOICE_ID FROM O_TRANS_B) AS OTBF
JOIN
(SELECT * FROM ROUTE) AS R
ON (OTBF.TRANSPORTATION_ID = R.TRANSPORTATION_ID
AND OTBF.FROM_STATION = R.STATION_CODE);

--SELECT * FROM RFB;

CREATE VIEW RTB AS
SELECT BOOKING_ID,R.TRANSPORTATION_ID,CLASS_ID,TO_STATION,INVOICE_ID,stop_number AS
TO_stop_no,km_from_origin AS TO_km
FROM (SELECT BOOKING_ID,TRANSPORTATION_ID,CLASS_ID,TO_STATION,INVOICE_ID FROM O_TRANS_B) AS OTBT
JOIN
(SELECT * FROM ROUTE) AS R
ON (OTBT.TRANSPORTATION_ID = R.TRANSPORTATION_ID
AND OTBT.TO_STATION = R.STATION_CODE);

--SELECT * FROM RTB;

SELECT *,(FF.TOTAL_AMT+ FF.TAXES) AS GRAND_TOTAL FROM
(SELECT F.*,(F.BASE_PRICE+F.BREAKFAST + F.LUNCH + F.DINNER + F.ZERO_CANCELLATION) AS TOTAL_AMT FROM
(SELECT INVOICE_ID,((to_km-from_km)*PRTFB.BASE_PRICE) as BASE_PRICE,(PRTFB.BREAKFAST*TADD.BREAKFAST)AS
BREAKFAST,
(PRTFB.LUNCH*TADD.LUNCH) AS LUNCH,
(PRTFB.DINNER*TADD.DINNER) AS DINNER,
(PRTFB.ZERO_CANCELLATION*TADD.ZERO_CANCELLATION) AS ZERO_CANCELLATION,
((to_km-from_km) * PRTFB.TAXES) AS TAXES FROM
(SELECT * FROM
((SELECT * FROM RTB
NATURAL JOIN RFB)
AS RTFB NATURAL JOIN TRANSPORTATION_FARES)
AS RTFB WHERE TO_stop_no>FROM_stop_no)
AS PRTFB JOIN TRANSPORTATION_ADD_ON AS TADD ON TADD.BOOKING_ID = PRTFB.BOOKING_ID) AS F)AS FF;
```

pgAdmin 4

File Object Tools Help

Browser > Collations > Domains > FTS Configuration > FTS Dictionaries > FTS Parsers > FTS Templates > Foreign Tables > Functions > Materialized Views > Operators > Sequences > Tables (36) > accommoda > accommoda > accommoda > accommoda > accommoda > available_rock > available_sea > bank_details > booking > cancellation > classes > consumer > consumer_p > invoice_data > offer_accom > offer_cities > offer_dates > offer_fares > offer_traces

202101208/202101208@WFA

Query History

```

226 --+
227 SELECT *,(FF.TOTAL_AMT+ FF.TAXES) AS GRAND_TOTAL FROM
228 (SELECT F.*,(F.BASE_PRICE+F.BREAKFAST + F.LUNCH + F.DINNER + F.ZERO_CANCELLATION) AS TOTAL_AMT FROM
229 (SELECT INVOICE_ID,((to_km-from_km)*PRTFB.BASE_PRICE) as BASE_PRICE,(PRTFB.BREAKFAST*TADD.BREAKFAST)AS BREAKFAST,
230 (PRTFB.LUNCH*TADD.LUNCH) AS LUNCH,
231 (PRTFB.DINNER*TADD.DINNER) AS DINNER,
232 (PRTFB.ZERO_CANCELLATION*TADD.ZERO_CANCELLATION) AS ZERO_CANCELLATION,
233 ((to_km-from_km) * PRTFB.TAXES) AS TAXES FROM
234 (SELECT * FROM RTB
235 ((SELECT * FROM RTB
236 NATURAL JOIN RFB)
237 AS RTFB NATURAL JOIN TRANSPORTATION_FARES)
238 AS RTFB WHERE TO_stop_no>FROM_stop_no)
239 AS PRTFB JOIN TRANSPORTATION_ADD_ON AS TADD ON TADD.BOOKING_ID = PRTFB.BOOKING_ID) AS F)AS FF;
240
241 SELECT * FROM TNVOTCF_DFTSTATS;

```

Data Output Messages Notifications

	invoice_id	base_price	breakfast	lunch	dinner	zero_cancellation	taxes	total_amt	grand_total
	character varying (50)	double precision	integer	integer	integer	integer	double precision	double precision	double precision
1	2J4E6F8D9G	3903.20010948181	85	0	175	250	700.280016422272	4413.20010948181	5113.48012590408
2	6F3D9G2J1E	193	75	0	0	75	34.7400013804436		343 377.740001380444
3	7H0C8I5B3G	490	0	0	300	0	88.2000035047531		790 878.200003504753
4	5B7A0H1C8I	1710	0	175	0	0	307.800012230873		1885 2192.80001223087
5	4A1J6E9F7D	9987.59978103638	0	300	300	400	1802.360060215	10987.5997810364	12789.9598412514
6	3G9I1B5C7A	400.800015926361	0	0	0	0	73.479999601841	400.800015926361	474.280015528202

Total rows: 6 of 6 | Query complete 00:00:00.133 | Ln 226, Col 3



40°C Sunny 16:15 ENG 24-04-2023

Query 20 :- Seat Availability in Particular Train between Jaipur and Jodhpur

```
SELECT TRANSPORTATION_NAME,CLASS_NAME,AVL.* FROM
(SELECT P.*,TC.CLASS_NAME,TC.CLASS_ID FROM
(SELECT T.TRANSPORTATION_NAME,T.USER_RATING,R.* FROM TRANSPORTATION AS T
NATURAL JOIN
(SELECT S.TRANSPORTATION_ID,S.STATION_CODE,S.ARRIVAL AS S_ARRIVAL,S.DEPARTURE AS S_DEPARTURE,
S.HALT AS S_HALT,S.DAY_NO AS S_DAY_NO,S.KM_FROM_ORIGIN AS S_KM_FROM_ORIGIN,
D.STATION_CODE,D.ARRIVAL AS D_ARRIVAL,D.DEPARTURE AS D_DEPARTURE,D.HALT AS D_HALT,D.DAY_NO AS
D_DAY_NO,D.KM_FROM_ORIGIN AS D_KM_FROM_ORIGIN FROM
(SELECT * FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Jaipur') AS N) AS S
JOIN
(SELECT * FROM ROUTE NATURAL JOIN (SELECT * FROM STATION WHERE CITY='Jodhpur') AS A) AS D ON
S.TRANSPORTATION_ID=D.TRANSPORTATION_ID
WHERE S.STOP_NUMBER < D.STOP_NUMBER) AS R ) AS P
NATURAL JOIN
(TRANSPORTATION_CLASS NATURAL JOIN CLASSES) AS TC) AS F
JOIN AVAILABLE_SEATS AS AVL ON (AVL.TRANSPORTATION_ID=F.TRANSPORTATION_ID AND
AVL.CLASS_ID=F.CLASS_ID) WHERE DEPARTURE_TIMESTAMP BETWEEN '2023-05-16 06:00:00' AND '2023-05-23
06:00:00';
```

The screenshot shows the pgAdmin 4 interface with the following details:

- File Object Tools Help**: The top menu bar.
- Browser**: The left sidebar showing database objects like Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, wfa, Aggregates, Collations, Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, and Tables (36).
- Query Editor**: The main area where the query is typed. The query itself is displayed in red, indicating it's a multi-line command. The output window below shows the results of the query.
- Data Output**: The results of the query are presented in a table format. The columns are:

transportation_name	class_name	transportation_id	class_id	from_station	to_station	departure_timestamp
JP JU EXP	Second sitting	22977	10	JP	JU	2023-05-1
JP JU EXP	Second sitting	22977	10	JP	JU	2023-05-1
JP JU EXP	Second sitting	22977	10	JP	JU	2023-05-1
JP JU EXP	Second sitting	22977	10	JP	JU	2023-05-2
JP JU EXP	Second sitting	22977	10	JP	JU	2023-05-2
JP JU EXP	Second sitting	22977	10	JP	JU	2023-05-2
- Messages**: Shows the status of the query execution.
- Notifications**: Shows any notifications or errors related to the query.
- System Bar**: The bottom bar showing system icons like battery level, network, and date/time.

Query 21 :- Total fares after complete booking

```
CREATE VIEW O_ACCM_B AS
SELECT CD.* , INVOICE_ID FROM
(SELECT * FROM
(SELECT BOOKING_ID FROM BOOKING
EXCEPT
SELECT BACKEND_BOOKING_ID FROM PACKAGE_BOOKING_DETAILS) AS AB
NATURAL JOIN ACCOMMODATION_BOOKING) AS CD
NATURAL JOIN BOOKING
;

SELECT *,(FF.TOTAL+FF.TAXES) AS GRAND_TOTAL FROM
(SELECT INVOICE_ID,(F.BASE_PRICE+F.BREAKFAST + F.LUNCH_OR_DINNER + F.DINNER + F.ZERO_CANCELLATION) AS
TOTAL ,TAXES FROM
(SELECT INVOICE_ID,AF.BASE_PRICE,(AF.BREAKFAST*AD.BREAKFAST)AS
BREAKFAST,(AF.LUNCH_OR_DINNER*AD.LUNCH_OR_DINNER) AS
LUNCH_OR_DINNER,(AF.LUNCH_AND_DINNER*AD.DINNER) AS
DINNER,(AF.ZERO_CANCELLATION*AD.ZERO_CANCELLATION) AS ZERO_CANCELLATION,AF.TAXES FROM
(SELECT * FROM O_ACCM_B
NATURAL JOIN ACCOMMODATION_FARES) AS AF
JOIN ACCOMMODATION_ADD_ON AS AD ON (AF.BOOKING_ID=AD.BOOKING_ID ) AS F) AS FF;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- File Bar:** pgAdmin 4, File, Object, Tools, Help.
- Toolbar:** Browser, Catalogs, Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), Sales Management, company, public, wfa, Aggregates, Collations, Domains, FTS Configurations, FTS Dictionaries, FTS Parsers, FTS Templates, Foreign Tables, Functions, Materialized Views, Operators, Sequences, Tables (36), accommodation.
- Query Editor:** The query is displayed in the main editor area.
- Result Grid:** The results of the query are shown in a grid format. The columns are Invoice_Id, total, taxes, and grand_total. The data is as follows:

	Invoice_Id	total	taxes	grand_total
1	8G2B7C1F6E	4505	1107	5612
2	1B7E3F0G9D	1700	676	2376
3	9J015D4H3A	950	100	1050
4	2H5C4A8J6I	700	120	820
5	3F6D1G9B0J	1350	180	1530
6	0E417A8H3D	1650	120	1770

- Status Bar:** Total rows: 6 of 6, Query complete 00:00:00.418, Ln 1, Col 1.
- System Tray:** Shows system icons including battery level (33°C Smoke), search, file, folder, mail, browser, messaging, and others.
- Bottom Bar:** Shows the date (24-04-2023), time (15:16), and language (ENG IN).

Query 22 :- Transaction Count of payments made using UPI

```
SELECT COUNT(TRANSACTION_ID) FROM TRANSACTION WHERE TRANSACTION_MODE = 'UPI';
```

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database schema, including catalogs, extensions, foreign data wrappers, languages, publications, schemas (with Sales Management, company, public, and wfa), and tables (with accommodation, accommodation_add_on, accommodation_booking, accommodation_fares, accommodation_refund_rules, available_rooms, and available_seats). The main window shows the query editor with the following content:

```
1 SET SEARCH_PATH TO WFA;
2
3 SELECT COUNT(TRANSACTION_ID) FROM TRANSACTION WHERE TRANSACTION_MODE = 'UPI';
```

The results pane shows a single row of data:

count	bigint
1	13

Below the results, status messages indicate "Total rows: 1 of 1" and "Query complete 00:00:00.235". A success message at the bottom right states "Successfully run. Total query runtime: 235 msec. 1 rows affected." The system tray at the bottom shows the date and time as 24-04-2023 15:28.

Query 23 :- Number of Cancellations and the amount to be refunded

```
SELECT COUNT(CANCELLATION_ID), SUM(TOTAL_REFUNDABLE_AMOUNT)
FROM CANCELLATION WHERE REFUND_STATUS = 'IN PROCESS';
```

The screenshot shows the pgAdmin 4 interface. The left sidebar is the 'Browser' pane, displaying a tree view of database objects under the 'wfa' schema, including tables like 'accommodation', 'accommodation_add_on', etc. The main area is the 'Query' pane, which contains the following SQL code:

```
1 SET SEARCH_PATH TO WFA;
2
3 SELECT COUNT(CANCELLATION_ID), SUM(TOTAL_REFUNDABLE_AMOUNT) FROM CANCELLATION WHERE REFUND_STATUS = 'IN PROCESS';
```

The 'Data Output' tab is selected, showing the results of the query:

	count	sum
	bigint	real
1	2	10455.5

Below the table, the status bar indicates "Total rows: 1 of 1" and "Query complete 00:00:00.356". The bottom taskbar shows various system icons and the date/time "24-04-2023 15:31".

Query 24 :- Rooms available for particular period

```
SELECT ACCOMMODATION_NAME, ROOM_TYPE_NAME, MIN(AVAILABLE_ROOMS) AS AVAILABLE FROM  
AVAILABLE_ROOMS AS AR NATURAL JOIN ROOM_TYPE NATURAL JOIN ACCOMMODATION  
WHERE CITY = 'Manali' AND (CHECK_IN_DATE = '2023-05-20' OR CHECK_OUT_DATE = '2023-05-22')  
GROUP BY ACCOMMODATION_NAME, ROOM_TYPE_NAME;
```

The screenshot shows the pgAdmin 4 interface. The top menu bar includes File, Object, Tools, and Help. The main window has tabs for Browser, Dashboard, Properties, SQL, Statistics, Dependencies, Dependents, and Processes. The SQL tab is active, displaying the query from above. The results pane shows a table with two rows of data.

	accommoation_name	room_type_name	available
1	Hotel Mountain Top	Honeymoon Room	7
2	Sarthak Resorts	Honeymoon Room	8

At the bottom, the status bar shows "Total rows: 2 of 2" and "Query complete 00:00:00.261". The system tray at the very bottom indicates it's 16:24 on 24-04-2023, with a battery level of 33% and a network connection icon.

Query 25 :- Displaying Invoice details

```
SELECT * FROM INVOICE_DETAILS;
```

The screenshot shows the pgAdmin 4 interface with the following details:

- File Object Tools Help**: The top navigation bar.
- Browser**: The left sidebar showing database objects under "Catalogs". It includes sections for Event Triggers, Extensions, Foreign Data Wrappers, Languages, Publications, Schemas (5), and Tables (36). The "Tables (36)" section is currently selected.
- Query Editor**: The main workspace where the query `SELECT * FROM INVOICE_DETAILS;` was run. The results are displayed in a table format.
- Table Headers**: The columns of the result table are `invoice_id`, `total_amount`, `taxes`, `grand_total`, `total_amount_paid`, `amount_left`, and `next_installment_date`.
- Table Data**: The table contains 17 rows of invoice details. The first few rows are:

invoice_id	total_amount	taxes	grand_total	total_amount_paid	amount_left	next_installment_date
5A6F8B1D2E	29064	5918.96	34983	20000	14983	2023-05-20
7C3G9A0H1J	169478	31573	201051	75000	126051	2023-05-18
2B6E5D8G0I	127109	23679.7	150789	150789	0	[null]
- Status Bar**: At the bottom, it shows "Total rows: 17 of 17" and "Query complete 00:00:00.465".
- System Icons**: The bottom right corner shows system icons for battery, signal, and date/time (16:30, 24-04-2023).