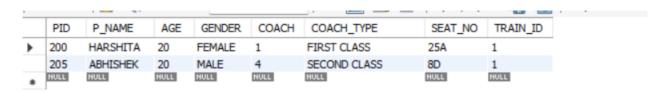# DBMS PRS

Dharamveer 2k20/IT/42, Devvart 2k20/IT/41

Queries:

Q1. Details of all passengers who are travelling via Rajdhani.
Query:

select p.* from passengers p where p.train_id=(select tid from train where tname='RAJDHANI');

PID	P_NAME	AGE	GENDER	COACH	COACH_TYPE	SEAT_NO	TRAIN_ID
200	HARSHITA	20	FEMALE	1	FIRST CLASS	25A	1
205	ABHISHEK	20	MALE	4	SECOND CLASS	8D	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Q2. Count of female passengers travelling via Rajdhani,Vande Bharat or Andaman Express.
Query:

select count(*) AS Number_Female_Passengers from passengers p where gender='FEMALE' and p.train_id IN(select tid from train where tname IN('RAJDHANI','VANDE BHARAT','ANDAMAN EXPRESS'));
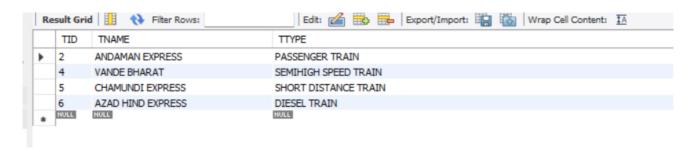
Result Grid	Filter Rows:	E

Number_Female_Passengers
3

Q3. Average age of all the passengers.
Query:

select avg(age) as Average_AGE from passengers;

Result Grid	Filter Rows:

Average_AGE
20.1250

Q4.Details of all trains moving on tracks with length greater than 250.
Query:

select t. from train t where tid IN(select train_id from moves_on
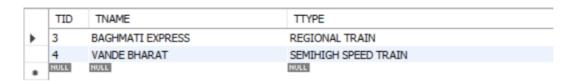where track_no IN (select track_no from tracks where length>250));*

TID	TNAME	TTYPE
2	ANDAMAN EXPRESS	PASSENGER TRAIN
4	VANDE BHARAT	SEMIHIGH SPEED TRAIN
5	CHAMUNDI EXPRESS	SHORT DISTANCE TRAIN
6	AZAD HIND EXPRESS	DIESEL TRAIN
NULL	NULL	NULL

Q5. All the tracks that are not in any station.
Query:

*select track_no from tracks where track_no NOT IN (select track_no
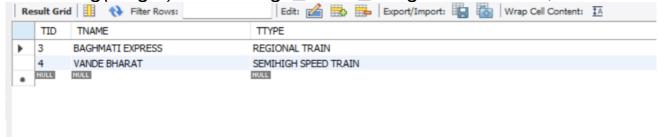from station);*

track_no
34

Q6. Details of all trains with destination Chandigarh.
Query:

*select * from train where tid IN(select train_id from schedules where
destination='CHANDIGHAR');*

TID	TNAME	TTYPE
3	BAGHMATI EXPRESS	REGIONAL TRAIN
4	VANDE BHARAT	SEMIHIGH SPEED TRAIN
NULL	NULL	NULL

Q7. Average length of tracks.
Query:

select avg(length) AS Average_Track_Lenght from tracks;

	TID	TNAME	TTYPE
▶	3	BAGHMATI EXPRESS	REGIONAL TRAIN
	4	VANDE BHARAT	SEMIHIGH SPEED TRAIN
*	NULL	NULL	NULL

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Q8. Details of train schedule with source "Belgaum".
Query:

*select * from schedules where source='BELGAUM';*

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

	SCHEDULES_ID	SOURCE	DESTINATION	start_time	end_time	TRAIN_ID	ROUTE_NO
▶	1	BELGAUM	GOA	2022-03-22 13:30:00	2022-03-22 20:30:00	2	13
	5	BELGAUM	MUMBAI	2022-03-23 14:40:00	2022-03-23 23:20:00	5	61
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL