

QUIZ JS

WEEK 02 – DAY02



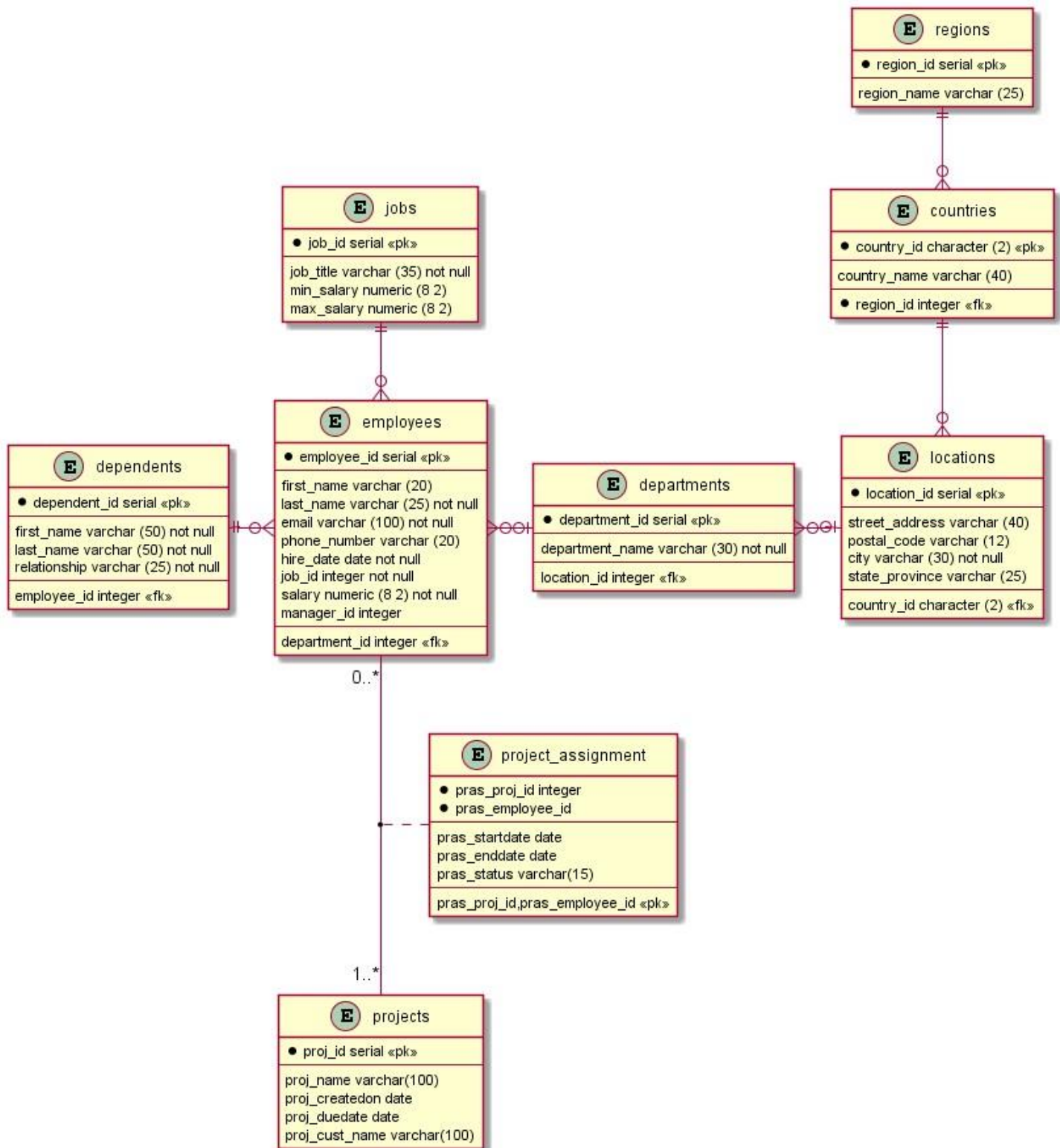
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Table of Contents

Quiz Day 1 2

Quiz Day 2





Perhatikan schema Entity Relationship Diagram dibawah :










1. Buat query untuk menampilkan data berikut :

Data Output	Explain	Messages	Notifications
region_id integer	region_name character varying (25)	country_id character (2)	country_name character varying (40)
1	Europe	BE	Belgium
2	Europe	CH	Switzerland
3	Europe	DE	Germany
4	Europe	DK	Denmark
5	Europe	FR	France
6	Europe	IT	Italy

2. Tampilkan berapa countries yang dimiliki oleh tiap regions.

Data Output		Explain	Messages	Notifications
 region_id [PK] integer	 region_name character varying (25)	 total_countries bigint		
1	1 Europe			8
2	2 Americas			5
3	3 Asia			6
4	4 Middle East and Africa			6

3. Tampilkan country dan locations di region Europe

Data Output		Explain	Messages	Notifications			
	country_id character (2)	 country_name character varying (40)	 location_id integer	 street_address character varying (40)	 postal_code character varying (12)	 city character varying (30)	 state_province character varying (25)
1	DE	Germany	2700	Schwanthalerstr. 7031	80925	Munich	Bavaria
2	UK	United Kingdom	2400	8204 Arthur St	[null]	London	[null]
3	UK	United Kingdom	2500	Magdalen Centre, The Oxford...	OX9 9ZB	Oxford	Oxford

4. Tampilkan department yang ada di region America

department_id [PK] integer	department_name character varying (30)	location_id integer
1	Administration	1700
2	Marketing	1800
3	Purchasing	1700
4	Shipping	1500
5	IT	1400
6	Executive	1700
7	Finance	1700
8	Accounting	1700

5. Tampilkan jumlah departments tiap region.

Data Output		Explain	Messages	Notifications
	region_name character varying (25)		total_department bigint	
1	Americas			8
2	Europe			3

6. Tampilkan jumlah department tiap country.

Data Output	Explain	Messages	Notifications
country_name character varying (40)		total_department bigint	
1 Canada		1	
2 Germany		1	
3 United Kingdom		2	
4 United States of America		7	

7. Tampilkan country yang memiliki total_department paling banyak.

Data Output	Explain	Messages	Notifications
country_name character varying (40)		total_department bigint	
1 United States of America		7	

8. Tampilkan jumlah employee tiap department terurut ascending

Data Output	Explain	Messages	Notifications
department_id [PK] integer	department_name character varying (30)	total_emps bigint	
3	1 Administration	1	
4	11 Accounting	2	
5	2 Marketing	2	
6	9 Executive	3	
7	6 IT	5	
8	8 Sales	6	
9	3 Purchasing	6	
10	10 Finance	6	
11	5 Shipping	7	

9. Tampilkan jumlah employee tiap department yang ada di region America

Data Output	Explain	Messages	Notifications
department_id [PK] integer	department_name character varying (30)	total_emps bigint	
1	1 Administration	1	
2	2 Marketing	2	
3	11 Accounting	2	
4	9 Executive	3	
5	6 IT	5	
6	10 Finance	6	
7	3 Purchasing	6	
8	5 Shipping	7	

10. Tampilkan employees yang mendapatkan bonus akhir tahun, jika masa kerja employees ≥ 25 tahun akan mendapatkan bonus 5x salary, jika kurang akan mendapatkan 3x salary. Hint : gunakan `extract(year from age(now(),hire_date))`

	employee_id [PK] integer	first_name character varying (20)	last_name character varying (25)	salary numeric (8,2)	masa_kerja double precision	bonus numeric
1	100	Steven	King	24000.00	34	120000.00
2	101	Neena	Kochhar	17000.00	31	85000.00
3	102	Lex	De Haan	17000.00	28	85000.00
4	103	Alexander	Hunold	9000.00	31	45000.00
5	104	Bruce	Ernst	6000.00	30	30000.00
6	105	David	Austin	4800.00	24	9600.00
7	106	Valli	Pataballa	4800.00	23	9600.00
8	107	Diana	Lorentz	4200.00	22	8400.00
9	108	Nancy	Greenberg	12000.00	27	60000.00
10	109	Daniel	Faviet	9000.00	27	45000.00

11. Tampilkan bonus tiap masa kerja

	masa_kerja double precision	bonus_per_masa_kerja numeric
1	21	26200.00
2	22	38000.00
3	23	109800.00
4	24	106400.00
5	25	125000.00
6	26	110000.00
7	27	289000.00
8	28	85000.00

12. Tampilkan jumlah pegawai berdasarkan masa kerja nya.

	15 <= masa kerja <=25 numeric	25 <= masa kerja <=30 numeric	30 <= masa kerja <=35 numeric
1	25	11	5

13. Buat tampilan matrix jumlah pegawai berdasarkan masa kerja di tiap department

	department_id [PK] integer	department_name character varying (30)	15 <= masa kerja <=25 numeric	25 <= masa kerja <=30 numeric	30 <= masa kerja <=35 numeric
1	11	Accounting	0	2	0
2	1	Administration	0	0	1
3	9	Executive	0	1	2
4	10	Finance	4	2	0
5	4	Human Resources	0	1	0
6	6	IT	3	1	1
7	2	Marketing	2	0	0
8	7	Public Relations	0	1	0
9	3	Purchasing	4	2	0
10	8	Sales	6	0	0