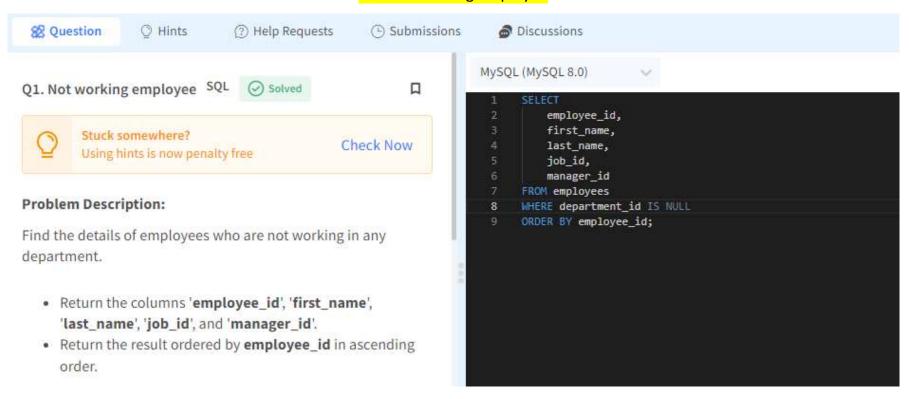


SQL_03 - Joins

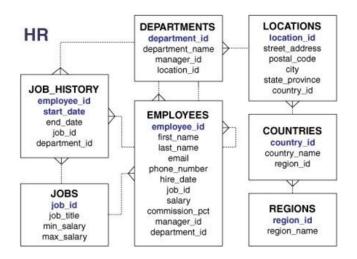
0	Name of the Problem	Туре ①	Difficulty	Score	Status	Submissions	Asked In	Actions
All Q 1	Q1. Not working employee	SQL	Medium	50.0 /50	⊘ Solved	1 submissions	¥	☐ ③ ☐ Solve
Q 2 ⁹	Q2. Article Views I	SQL	Easy	50.0 /50	⊙ Solved	1 submissions	Đ.	□ ② □ Solve
Q3 [©]	Q3. Employee 107	SQL	Medium	50.0 /50	⊘ Solved	1 submissions	5	□ ② □ Solve
Q4 ^Q	Q4. Adam	SQL	Medium	50.0 /50	⊘ Solved	1 submissions	ā	□ ② □ Solve
6 6 ₈	Q5. No Job history	SQL	Medium	50.0 /50	⊘ Solved	1 submissions		□ ③ □ Solve
ر4 وچ	Q6. Department name	SQL	Hard	50.0 /50	⊘ Solved	2 submissions	÷	□ ② □ Solve

6 60	Q7. Seattle	SQL	Medium	50.0 /50	⊘ Solved	1 submissions	28	Q (2) D	Solve
Q.P	Q8. Invalid Departments	SQL	Very Easy	50.0 /50	⊘ Solved	1 submissions	Đ	Д @ 🗅	Solve
Q g [©]	Q9. Salary Bins	SQL	Hard	50.0 /50	⊘ Solved	2 submissions	**		Solve

Q1. Not working employee



Dataset Description:



Sample Input:

Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
175	Alyssa	Hutton	AHUTTON	011.44.1644.4	1997-03-19	SA_REP	8800	0.25	149	80
176	Jonathon	Taylor	JTAYLOR	011.44.1644.4	1998-03-24	SA_REP	8600	0.2	149	80
177	Jack	Livingston	JLIVINGS	011.44.1644.4	1998-04-23	SA_REP	8400	0.2	149	80
178	Kimberely	Grant	KGRANT	011.44.1644.4	1999-05-24	SA_REP	7000	0.15	149	EDITOR .
179	Charles	Johnson	CJOHNSON	011.44.1644.4	2000-01-04	SA_REP	6200	0.1	149	80
180	Winston	Taylor	WTAYLOR	650.507.9876	1998-01-24	SH_CL	3200	HULL	120	50

. The missing value in the department_id column in the employee's table refers to not working in any department.

employee_id	first_name	last_name	job_id	manager_id
178	Kimberely	Grant	SA_REP	149

Q2. Article Vews I

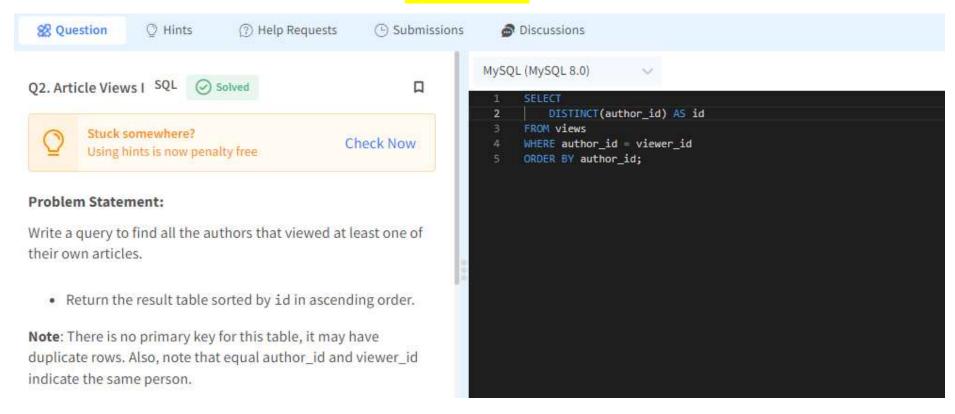


Table: views

article_id	author_id	viewer_id	view_date
1	3	5	2019-08-01
1	3	6	2019-08-02
2	7	7	2019-08-01
2	7	6	2019-08-02
4	7	1	2019-07-22
3	4	4	2019-07-21
3	4	4	2019-07-21

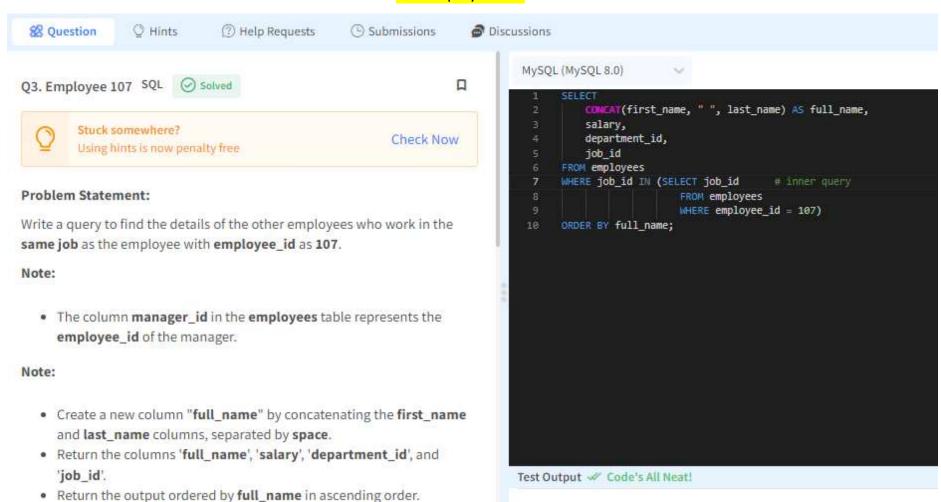
Sample output:



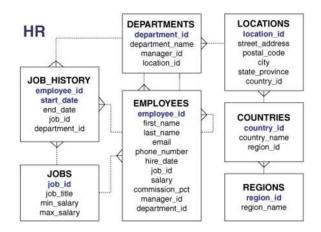
Explanation:

- For article_id = 2 on view_date 2019-08-01, author and viewer is the same person with id = 7.
- For article_id = 3 on view_date 2019-07-21, author and viewer is the same person with id = 4.

Q3. Employee 107



Dataset Description:



Sample Input:

Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000	HOLL	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000	MULL	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000	MULL	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800	HULL	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200	HURE	103	60
115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100	MULL	114	30
151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500	0.25	145	80
165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800	0.1	147	80

Sample Output:

full_name	salary	department_id	job_id
Alexander Hunold	9000	60	IT_PROG
Bruce Ernst	6000	60	IT_PROG
David Austin	4800	60	IT_PROG
Diana Lorentz	4200	60	IT_PROG

Sample Explanation:

Here the employee with id 107 has the job_id as 'IT_PROG'. In the sample data, we have 4 employees with the same job_id including employee 107. Hence, we return those 4 records with the same job_id as 107.

Q4. Adam

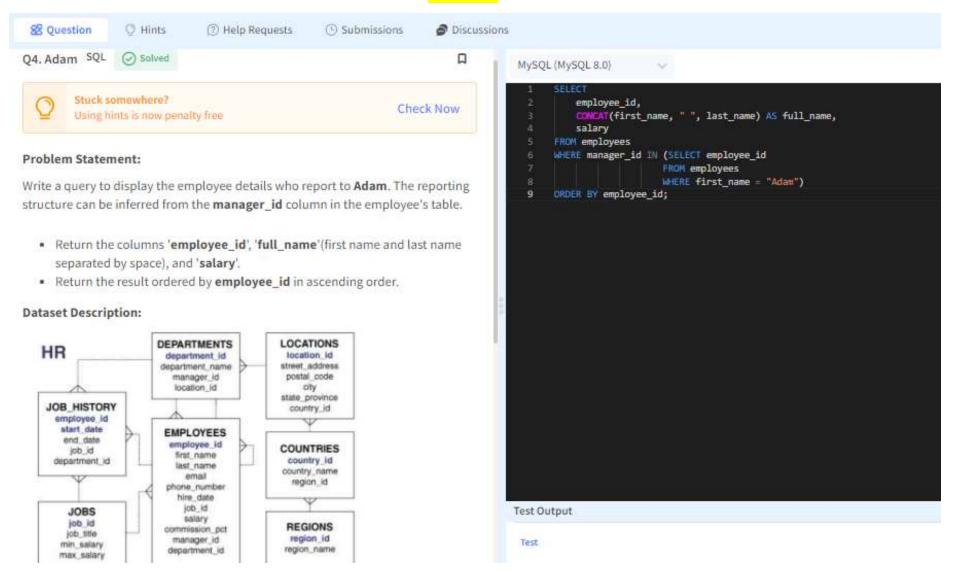


Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200	HUGE	100	50
132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100	THOUSE .	121	50
184	Nandita	Sarchand	NSARCHAN	650.509.1876	1996-01-27	SH_CLERK	4200	(SARE)	121	50
185	Alexis	Bull	ABULL	650.509.2876	1997-02-20	SH_CLERK	4100	ELLER S	121	50
186	Julia	Dellinger	JDELLING	650.509.3876	1998-06-24	SH_CLERK	3400	HUNGE	121	50
187	Anthony	Cabrio	ACABRIO	650.509.4876	1999-02-07	SH_CLERK	3000	HUUU	121	50
188	Kelly	Chung	KCHUNG	650.505.1876	1997-06-14	SH_CLERK	3800	CHANGE OF THE PARTY OF THE PART	122	50
189	Jennifer	Dilly	JDILLY	650.505.2876	1997-08-13	SH_CLERK	3600	[MAKE]	122	50
190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900	DOME	122	50

• The manager_id in the employees table is the **employee_id** of the manager.

employee_id	full_name	salary
132	TJ Olson	2100
184	Nandita Sarchand	4200
185	Alexis Bull	4100
186	Julia Dellinger	3400
187	Anthony Cabrio	3000

Q5. No Job history

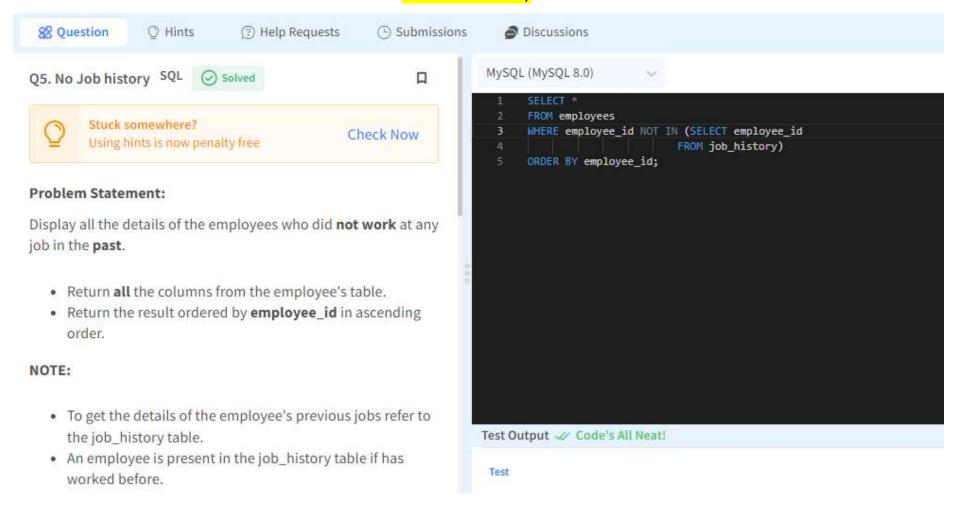


Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	25000	HOUSE	MULL	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000	BUSS	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000	ERRE	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000	ERRE	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000	EUC	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800	ED0008	103	60

Table: job_history

employee_id	start_date	end_date	job_id	department_id
101	1989-09-21	1993-10-27	AC_ACCOUNT	110
101	1993-10-28	1997-03-15	AC_MGR	110
102	1993-01-13	1998-07-24	IT_PROG	60

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	25000	(HULL)	ERCENS	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000	HOLE	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000	more	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800	HULL	103	60

Q6. Department name

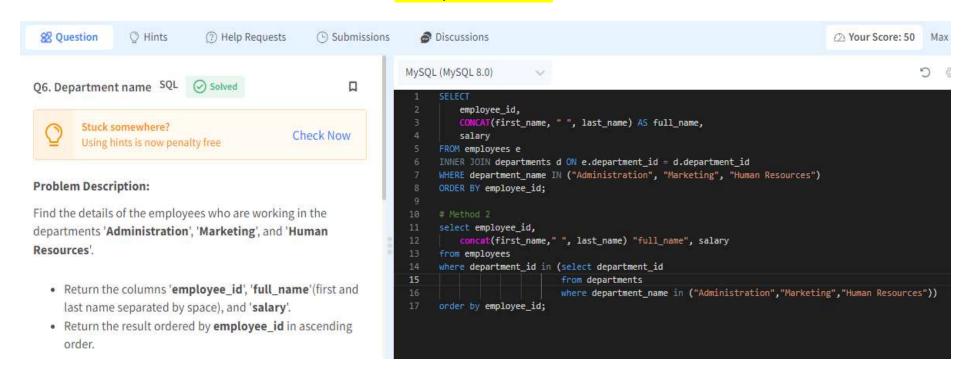


Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission	manager_id	department_id
200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-17	AD_ASST	4400	MULL.	101	10
201	Michael	Hartstein	MHARTSTE	515.123.5555	1996-02-17	MK_MAN	13000	HUUS	100	20
202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000	HURLE	201	20
203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500	HULL	101	40

Table: departments

department_id	department_name	manager_id	location_id
10	Administration	200	1700
20	Marketing	201	1800
40	Human Resources	203	2400

employee_id ^	full_name	salary
200	Jennifer Whalen	4400
201	Michael Hartstein	13000
202	Pat Fay	6000
203	Susan Mavris	6500

Q7. Seattle

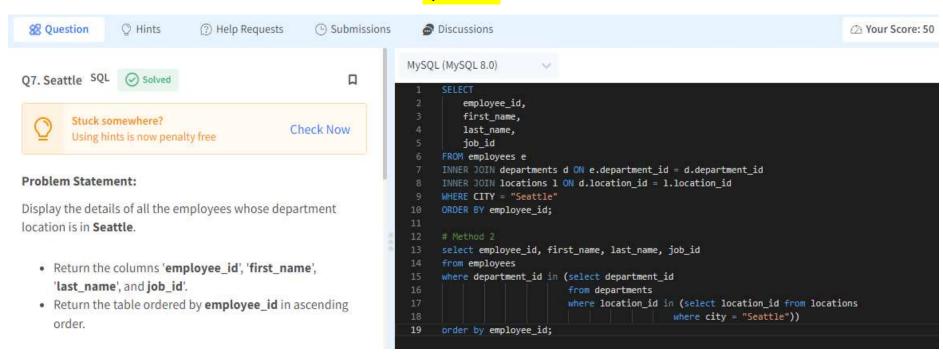


Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_ld	salary	commission_pct	manager_id	department_ld
100	Staven	King	SKING	515,123,4567	1987-06-17	AD_PRES	25000	COURS	0000	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000	E2038	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000	E22258	100	90
103	Alexander	Hunoid	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000	EDISS	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000	HOSE	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800	COMM	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800	EDITE	103	60

Table: departments

department_id	department_name	manager_id	location_id
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700

Table: locations

location,	_id_street_address	postal_code	e city	state_province	country_id
1400	2014 Jabberwocky Rd	26192	Southlake	Texas	US
1500	2011 Interiors Blvd	99236	South San Francisco	California	US
1600	2007 Zagora St	50090	South Brunswick	New Jersey	US
1700	2004 Charade Rd	98199	Seattle	Washington	US
2400	8204 Arthur St	E2008	London	COLUM	UK
2700	Schwarthalerstr. 7031	80925	Munich	Bavaria	DE

employee_id	first_name	last_name	job_id
100	Steven	King	AD_PRES
101	Neena	Kochhar	AD_VP
102	Lex	De Haan	AD_VP

Q8. Invalid Departments

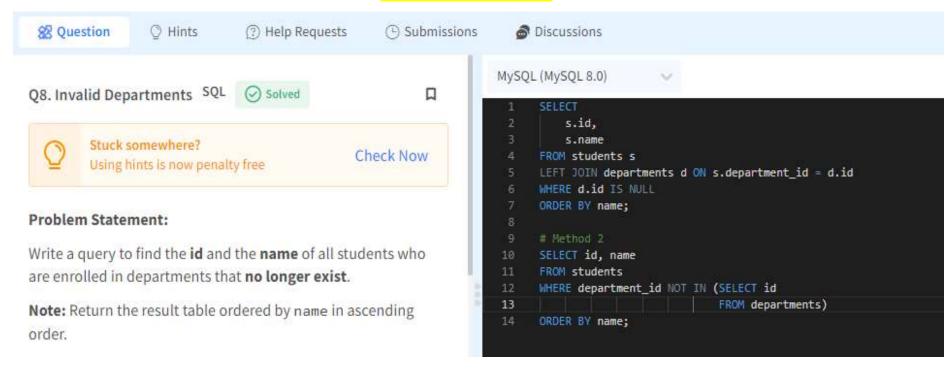


Table: departments

id	name
1	Electrical Engineering
7	Computer Engineering
13	Bussiness Administration

Table: students

id	name	department_id
23	Alice	1
1	Bob	7
5	Jennifer	13
2	John	14
4	Jasmine	77
3	Steve	74
6	Luis	1
8	Jonathan	7
7	Daiana	33
11	Madelynn	1

Sample Output:

90011	T 032000A
id	name
7	Daiana
4	Jasmine
2	John
3	Steve

Explanation:

- . John, Daiana, Steve, and Jasmine are enrolled in departments 14, 33, 74, and 77 respectively.
- . Department 14, 33, 74, and 77 do not exist anymore in the departments table.

Q9. Salary Bins

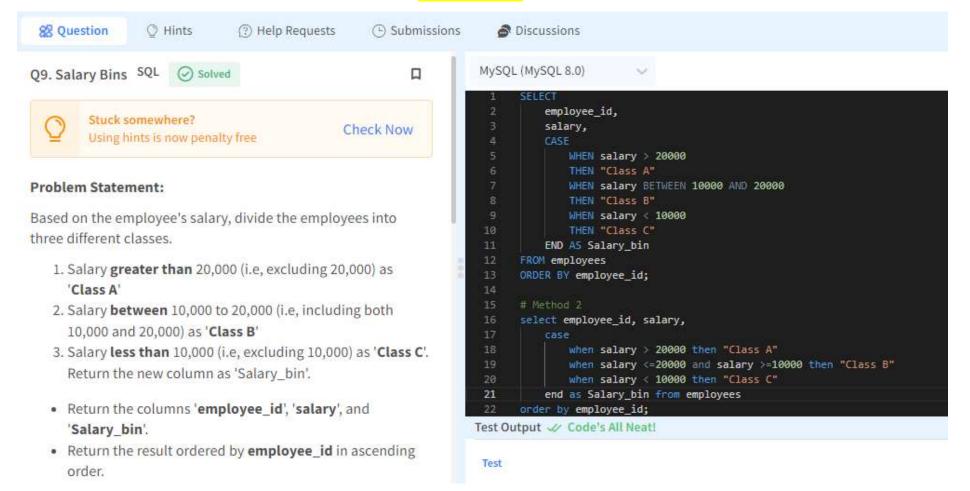


Table: employees

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	25000	BIDGE	DOLLEG	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000	EUSSII .	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000	EDESHI .	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000	MULL	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000	EDUSTI .	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800	EDDER	103	60

employee_id	salary	Salary_bin
100	25000	Class A
101	17000	Class B
102	17000	Class B
103	9000	Class C
104	6000	Class C
105	4800	Class C