B

Table Descriptions and Data

Human Resources (HR) Data Set

LOCATIONS
- LOCATION_ID
- STREET_ADDRESS
- POSTAL_CODE
- CITY
- STATE_PROVINCE
- COUNTRY_ID

DEPARTMENTS
- DEPARTMENT_ID
- DEPARTMENT_NAME
- MANAGER_ID
- LOCATION_ID

JOB_HISTORY
- EMPLOYEE_ID
- START_DATE
- END_DATE
- JOB_ID
- DEPARTMENT_ID

COUNTRIES
- COUNTRY_ID
- COUNTRY_NAME
- REGION_ID

EMPLOYEES
- EMPLOYEE_ID
- MANAGER_ID
- DEPARTMENT_ID
- FIRST_NAME
- LAST_NAME
- EMAIL
- PHONE_NUMBER
- HIRE_DATE
- JOB_ID
- SALARY
- COMMISSION_PCT

JOBS
- JOB_ID
- JOB_TITLE
- MIN_SALARY
- MAX_SALARY

REGIONS
- REGION_ID
- REGION_NAME

JOB_GRADES
- GRADE_LEVEL
- LOWEST_SAL
- HIGHEST_SAL

0..1   *
0..1   *
*
0..1
0..1
0..1
1
1
1
1
0..1
*
*
*
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*
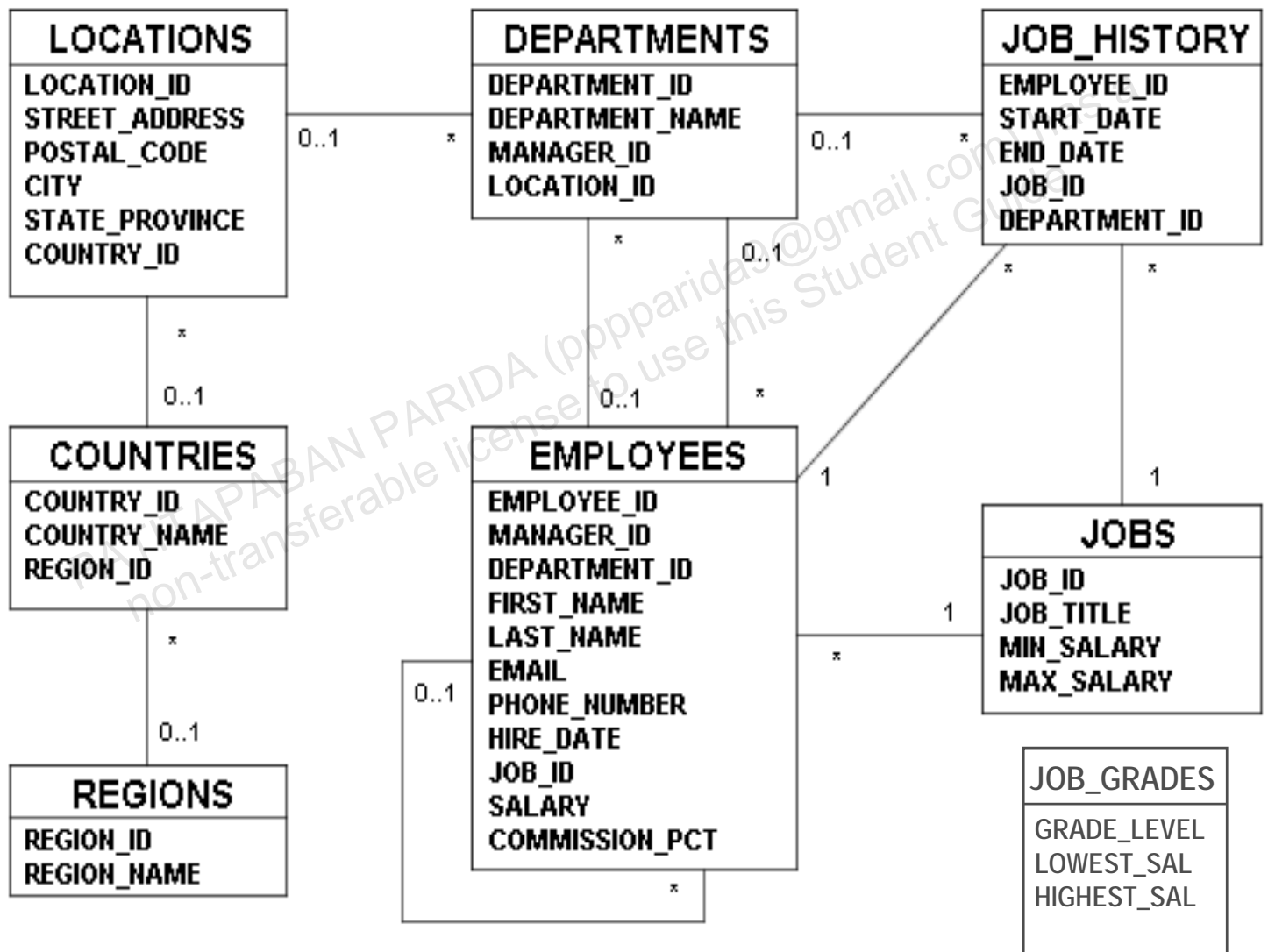
Human Resources (HR) Data Set

The Human Resources (HR) schema is part of the Oracle Common Schema that can be installed in an Oracle Database. The practices in this course use the data from the HR schema.

Table Descriptions

REGIONS contains rows representing a region (such as Americas, Asia, and so on).

COUNTRIES contains rows for countries, each of which are associated with a region.

LOCATIONS contains the addresses of specific offices, warehouses, and/or production sites of a company in a particular country.

DEPARTMENTS shows details of the departments in which employees work. Each department can have a relationship representing the department manager in the EMPLOYEES table.

EMPLOYEES contains details about each employee who works for a department. Some employees may not be assigned to any department.

JOBS contains the job types that can be held by each employee.

JOB_HISTORY contains the job history of the employees. If an employee changes departments within the job or changes jobs within the department, a new row is inserted in this table with the old job information of the employee.

JOB_GRADES identifies a salary range per job grade. The salary ranges do not overlap.

COUNTRIES Table

DESCRIBE countries

```
Name                            Null      Type
------------------------------- --------  -------------
COUNTRY_ID                      NOT NULL  CHAR(2)
COUNTRY_NAME                              VARCHAR2(40)
REGION_ID                                 NUMBER

3 rows selected
```

SELECT * FROM countries;

	COUNTRY_ID	COUNTRY_NAME	REGION_ID
1	CA	Canada	2
2	DE	Germany	1
3	UK	United Kingdom	1
4	US	United States of America	2

DEPARTMENTS Table

```
DESCRIBE departments
```

```
Name                             Null      Type
-------------------------------  --------  -------------
DEPARTMENT_ID                    NOT NULL  NUMBER(4)
DEPARTMENT_NAME                  NOT NULL  VARCHAR2(30)
MANAGER_ID                                 NUMBER(6)
LOCATION_ID                                NUMBER(4)

4 rows selected
```

```
SELECT * FROM departments;
```

	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10	Administration	200	1700
2	20	Marketing	201	1800
3	50	Shipping	124	1500
4	60	IT	103	1400
5	80	Sales	149	2500
6	90	Executive	100	1700
7	110	Accounting	205	1700
8	190	Contracting	(null)	1700

EMPLOYEES Table

```
DESCRIBE employees
```

```
Name                              Null       Type
-----------------------------     --------   -------------
EMPLOYEE_ID                       NOT NULL   NUMBER(6)
FIRST_NAME                                   VARCHAR2(20)
LAST_NAME                         NOT NULL   VARCHAR2(25)
EMAIL                             NOT NULL   VARCHAR2(25)
PHONE_NUMBER                                 VARCHAR2(20)
HIRE_DATE                         NOT NULL   DATE
JOB_ID                            NOT NULL   VARCHAR2(10)
SALARY                                       NUMBER(8,2)
COMMISSION_PCT                               NUMBER(2,2)
MANAGER_ID                                   NUMBER(6)
DEPARTMENT_ID                                NUMBER(4)

11 rows selected
```

```
SELECT * FROM employees;
```

	EMP...	FIRST...	LAST...	EMAIL	PHONE_NUMBER	HIRE_D...	JOB_ID	SAL...	COM...	MAN...	DEP...
1	200	Jennifer	Whalen	JWHALEN	515.123.4444	17-SEP-87	AD_ASST	4400	(null)	101	10
2	201	Michael	Hartstein	MHARTSTE	515.123.5555	17-FEB-96	MK_MAN	13000	(null)	100	20
3	202	Pat	Fay	PFAY	603.123.6666	17-AUG-97	MK_REP	6000	(null)	201	20
4	205	Shelley	Higgins	SHIGGINS	515.123.8080	07-JUN-94	AC_MGR	12000	(null)	101	110
5	206	William	Gietz	WGIETZ	515.123.8181	07-JUN-94	AC_ACCOUNT	8300	(null)	205	110
6	100	Steven	King	SKING	515.123.4567	17-JUN-87	AD_PRES	24000	(null)	(null)	90
7	101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-89	AD_VP	17000	(null)	100	90
8	102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-93	AD_VP	17000	(null)	100	90
9	103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-90	IT_PROG	9000	(null)	102	60
10	104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-91	IT_PROG	6000	(null)	103	60
11	107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-99	IT_PROG	4200	(null)	103	60
12	124	Kevin	Mourgos	KMOURGOS	650.123.5234	16-NOV-99	ST_MAN	5800	(null)	100	50
13	141	Trenna	Rajs	TRAJS	650.121.8009	17-OCT-95	ST_CLERK	3500	(null)	124	50
14	142	Curtis	Davies	CDAVIES	650.121.2994	29-JAN-97	ST_CLERK	3100	(null)	124	50
15	143	Randall	Matos	RMATOS	650.121.2874	15-MAR-98	ST_CLERK	2600	(null)	124	50
16	144	Peter	Vargas	PVARGAS	650.121.2004	09-JUL-98	ST_CLERK	2500	(null)	124	50
17	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29-JAN-00	SA_MAN	10500	0.2	100	80
18	174	Ellen	Abel	EABEL	011.44.1644.429267	11-MAY-96	SA_REP	11000	0.3	149	80
19	176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	24-MAR-98	SA_REP	8600	0.2	149	80
20	178	Kimberely	Grant	KGRANT	011.44.1644.429263	24-MAY-99	SA_REP	7000	0.15	149	(null)

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JOBS Table

```
DESCRIBE jobs
```

```
Name                           Null     Type
------------------------------ -------- --------------
JOB_ID                         NOT NULL VARCHAR2(10)
JOB_TITLE                      NOT NULL VARCHAR2(35)
MIN_SALARY                              NUMBER(6)
MAX_SALARY                              NUMBER(6)

4 rows selected
```

```
SELECT * FROM jobs;
```

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
1	AD_PRES	President	20000	40000
2	AD_VP	Administration Vice President	15000	30000
3	AD_ASST	Administration Assistant	3000	6000
4	AC_MGR	Accounting Manager	8200	16000
5	AC_ACCOUNT	Public Accountant	4200	9000
6	SA_MAN	Sales Manager	10000	20000
7	SA_REP	Sales Representative	6000	12000
8	ST_MAN	Stock Manager	5500	8500
9	ST_CLERK	Stock Clerk	2000	5000
10	IT_PROG	Programmer	4000	10000
11	MK_MAN	Marketing Manager	9000	15000
12	MK_REP	Marketing Representative	4000	9000

`JOB_GRADES` Table

```
DESCRIBE job_grades
```

```
Name                              Null      Type
------------------------------- --------  ------------
GRADE_LEVEL                                 VARCHAR2(3)
LOWEST_SAL                                  NUMBER
HIGHEST_SAL                                 NUMBER

3 rows selected
```

```
SELECT * FROM job_grades;
```

	GRADE_LEVEL	LOWEST_SAL	HIGHEST_SAL
1	A	1000	2999
2	B	3000	5999
3	C	6000	9999
4	D	10000	14999
5	E	15000	24999
6	F	25000	40000

JOB_HISTORY Table

```
DESCRIBE job_history
```

```
Name                              Null      Type
-------------------------------   --------  --------------
EMPLOYEE_ID                       NOT NULL  NUMBER(6)
START_DATE                        NOT NULL  DATE
END_DATE                          NOT NULL  DATE
JOB_ID                            NOT NULL  VARCHAR2(10)
DEPARTMENT_ID                               NUMBER(4)

5 rows selected
```

```
SELECT * FROM job_history;
```

	EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
1	102	13-JAN-93	24-JUL-98	IT_PROG	60
2	101	21-SEP-89	27-OCT-93	AC_ACCOUNT	110
3	101	28-OCT-93	15-MAR-97	AC_MGR	110
4	201	17-FEB-96	19-DEC-99	MK_REP	20
5	114	24-MAR-98	31-DEC-99	ST_CLERK	50
6	122	01-JAN-99	31-DEC-99	ST_CLERK	50
7	200	17-SEP-87	17-JUN-93	AD_ASST	90
8	176	24-MAR-98	31-DEC-98	SA_REP	80
9	176	01-JAN-99	31-DEC-99	SA_MAN	80
10	200	01-JUL-94	31-DEC-98	AC_ACCOUNT	90

LOCATIONS Table

```
DESCRIBE locations
```

```
Name                            Null      Type
------------------------------  --------  --------------
LOCATION_ID                     NOT NULL  NUMBER(4)
STREET_ADDRESS                            VARCHAR2(40)
POSTAL_CODE                               VARCHAR2(12)
CITY                            NOT NULL  VARCHAR2(30)
STATE_PROVINCE                            VARCHAR2(25)
COUNTRY_ID                                CHAR(2)

6 rows selected
```

```
SELECT * FROM locations;
```

	LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	COUNTRY_ID
1	1400	2014 Jabberwocky Rd	26192	Southlake	Texas	US
2	1500	2011 Interiors Blvd	99236	South San Francisco	California	US
3	1700	2004 Charade Rd	98199	Seattle	Washington	US
4	1800	460 Bloor St. W.	ON M5S 1X8	Toronto	Ontario	CA
5	2500	Magdalen Centre, The Oxford Science Park	OX9 9ZB	Oxford	Oxford	UK

REGIONS Table

```
DESCRIBE regions
```

```
Name                                    Null     Type
-------------------------------- -------- -------------
REGION_ID                        NOT NULL NUMBER
REGION_NAME                               VARCHAR2(25)

2 rows selected
```

```
SELECT * FROM regions;
```

	REGION_ID	REGION_NAME
1	1	Europe
2	2	Americas
3	3	Asia
4	4	Middle East and Africa