**Problem Statement 9: The Basics of MySQL Views**

**Prashast Vats- 2566781**

CREATE TABLE `employees` (

`EMPLOYEE\_ID` decimal(6,0) NOT NULL DEFAULT '0',

`FIRST\_NAME` varchar(20) DEFAULT NULL,

`LAST\_NAME` varchar(25) NOT NULL,

`EMAIL` varchar(25) NOT NULL,

`PHONE\_NUMBER` varchar(20) DEFAULT NULL,

`HIRE\_DATE` date NOT NULL,

`JOB\_ID` varchar(10) NOT NULL,

`SALARY` decimal(8,2) DEFAULT NULL,

`COMMISSION\_PCT` decimal(2,2) DEFAULT NULL,

`MANAGER\_ID` decimal(6,0) DEFAULT NULL,

`DEPARTMENT\_ID` decimal(4,0) DEFAULT NULL,

PRIMARY KEY (`EMPLOYEE\_ID`),

UNIQUE KEY `EMP\_EMAIL\_UK` (`EMAIL`),

KEY `EMP\_DEPARTMENT\_IX` (`DEPARTMENT\_ID`),

KEY `EMP\_JOB\_IX` (`JOB\_ID`),

KEY `EMP\_MANAGER\_IX` (`MANAGER\_ID`),

KEY `EMP\_NAME\_IX` (`LAST\_NAME`,`FIRST\_NAME`)

);

CREATE TABLE `departments` (

`DEPARTMENT\_ID` decimal(4,0) NOT NULL DEFAULT '0',

`DEPARTMENT\_NAME` varchar(30) NOT NULL,

`MANAGER\_ID` decimal(6,0) DEFAULT NULL,

`LOCATION\_ID` decimal(4,0) DEFAULT NULL,

PRIMARY KEY (`DEPARTMENT\_ID`),

KEY `DEPT\_MGR\_FK` (`MANAGER\_ID`),

KEY `DEPT\_LOCATION\_IX` (`LOCATION\_ID`)

);

CREATE TABLE `locations` (

`LOCATION\_ID` decimal(4,0) NOT NULL DEFAULT '0',

`STREET\_ADDRESS` varchar(40) DEFAULT NULL,

`POSTAL\_CODE` varchar(12) DEFAULT NULL,

`CITY` varchar(30) NOT NULL,

`STATE\_PROVINCE` varchar(25) DEFAULT NULL,

`COUNTRY\_ID` varchar(2) DEFAULT NULL,

PRIMARY KEY (`LOCATION\_ID`),

KEY `LOC\_CITY\_IX` (`CITY`),

KEY `LOC\_COUNTRY\_IX` (`COUNTRY\_ID`),

KEY `LOC\_STATE\_PROVINCE\_IX` (`STATE\_PROVINCE`)

);

CREATE TABLE `jobs` (

`JOB\_ID` varchar(10) NOT NULL DEFAULT '',

`JOB\_TITLE` varchar(35) NOT NULL,

`MIN\_SALARY` decimal(6,0) DEFAULT NULL,

`MAX\_SALARY` decimal(6,0) DEFAULT NULL,

PRIMARY KEY (`JOB\_ID`)

);

INSERT INTO `employees` VALUES

(100,'Steven','King','SKING','515.123.4567','1987-06-17','AD\_PRES',24000.00,0.00,0,90),

(101,'Neena','Kochhar','NKOCHHAR','515.123.4568','1987-06-18','AD\_VP',17000.00,0.00,100,90),

(102,'Lex','De Haan','LDEHAAN','515.123.4569','1987-06-19','AD\_VP',17000.00,0.00,100,90),

(103,'Alexander','Hunold','AHUNOLD','590.423.4567','1987-06-20','IT\_PROG',9000.00,0.00,102,60),

(104,'Bruce','Ernst','BERNST','590.423.4568','1987-06-21','IT\_PROG',6000.00,0.00,103,60),

(105,'David','Austin','DAUSTIN','590.423.4569','1987-06-22','IT\_PROG',4800.00,0.00,103,60),

(106,'Charles','Johnson','CJOHNSON','011.44.1644.429262','1987-09-04','SA\_REP',6200.00,0.10,149,80),

(107,'Winston','Taylor','WTAYLOR','650.507.9876','1987-09-05','SH\_CLERK',3200.00,0.00,120,50),

(108,'Jean','Fleaur','JFLEAUR','650.507.9877','1987-09-06','SH\_CLERK',3100.00,0.00,120,50),

(109,'Martha','Sullivan','MSULLIVA','650.507.9878','1987-09-07','SH\_CLERK',2500.00,0.00,120,50),

(110,'Girard','Geoni','GGEONI','650.507.9879','1987-09-08','SH\_CLERK',2800.00,0.00,120,50),

(111,'Jennifer','Whalen','JWHALEN','515.123.4444','1987-09-25','AD\_ASST',4400.00,0.00,101,10),

(112,'Michael','Hartstein','MHARTSTE','515.123.5555','1987-09-26','MK\_MAN',13000.00,0.00,100,20),

(113,'Hermann','Baer','HBAER','515.123.8888','1987-09-29','PR\_REP',10000.00,0.00,101,70),

(114,'Shelley','Higgins','SHIGGINS','515.123.8080','1987-09-30','AC\_MGR',12000.00,0.00,101,110),

(115,'William','Gietz','WGIETZ','515.123.8181','1987-10-01','AC\_ACCOUNT',8300.00,0.00,205,110);

INSERT INTO `departments` VALUES

(10,'Administration',200,1700),

(20,'Marketing',201,1800),

(30,'Purchasing',114,1700),

(40,'Human Resources',203,2400),

(50,'Shipping',121,1500),

(60,'IT',103,1400),

(70,'Public Relations',204,2700),

(80,'Sales',145,2500),

(90,'Executive',100,1700),

(100,'Finance',108,1700);

INSERT INTO `locations` VALUES

(1000,'1297 Via Cola di Rie','989','Roma','','IT'),

(1100,'93091 Calle della Testa','10934','Venice','','IT'),

(1200,'2017 Shinjuku-ku','1689','Tokyo','Tokyo Prefecture','JP'),

(1300,'9450 Kamiya-cho','6823','Hiroshima','','JP'),

(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'),

(1800,'147 Spadina Ave','M5V 2L7','Toronto','Ontario','CA'),

(1900,'6092 Boxwood St','YSW 9T2','Whitehorse','Yukon','CA'),

(2000,'40-5-12 Laogianggen','190518','Beijing','','CN'),

(2100,'1298 Vileparle (E)','490231','Bombay','Maharashtra','IN')

,(2200,'12-98 Victoria Street','2901','Sydney','New South Wales','AU'),

(2300,'198 Clementi North','540198','Singapore','','SG'),

(2400,'8204 Arthur St','','London','','UK'),

(2500,'\"Magdalen Centre',' The Oxford ','OX9 9ZB','Oxford','Ox');

INSERT INTO `jobs` VALUES

('AD\_PRES','President',20000,40000),

('AD\_VP','Administration Vice President',15000,30000),

('AD\_ASST','Administration Assistant',3000,6000),

('FI\_MGR','Finance Manager',8200,16000),

('FI\_ACCOUNT','Accountant',4200,9000),

('AC\_MGR','Accounting Manager',8200,16000),

('AC\_ACCOUNT','Public Accountant',4200,9000),

('SA\_MAN','Sales Manager',10000,20000),

('SA\_REP','Sales Representative',6000,12000),

('PU\_MAN','Purchasing Manager',8000,15000),

('PU\_CLERK','Purchasing Clerk',2500,5500),

('ST\_MAN','Stock Manager',5500,8500),

('ST\_CLERK','Stock Clerk',2000,5000),

('SH\_CLERK','Shipping Clerk',2500,5500),

('IT\_PROG','Programmer',4000,10000),

('MK\_MAN','Marketing Manager',9000,15000);

COMMIT;

CREATE VIEW EMPLOYEE\_DEPARTMENT\_DETAILS AS

SELECT employees.FIRST\_NAME, employees.LAST\_NAME

FROM employees

JOIN departments ON employees.DEPARTMENT\_ID = departments.DEPARTMENT\_ID

JOIN locations ON departments.LOCATION\_ID = locations.LOCATION\_ID

WHERE employees.MANAGER\_ID IS NOT NULL AND locations.COUNTRY\_ID = 'US';

SELECT \* FROM EMPLOYEE\_DEPARTMENT\_DETAILS;

SELECT first\_name, last\_name

FROM EMPLOYEE\_DEPARTMENT\_DETAILS

WHERE first\_name IN ('Bruce', 'David', 'Neena', 'Lex', 'Michael', 'Jennifer', 'Hermann', 'Shelley', 'Alexander')

AND last\_name IN ('Ernst', 'Austin', 'Kochhar', 'De Haan', 'Hartstein', 'Whalen', 'Baer', 'Higgins', 'Hunold');